## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## **FORM 10-Q**

☑ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended September 30, 2024

□ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_

Commission file number: 001-37625

# **Voyager Therapeutics, Inc.**

(Exact name of Registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)

75 Hayden Avenue, Lexington, Massachusetts (Address of principal executive offices) 46-3003182 (I.R.S. Employer Identification No.)

> 02421 (Zip Code)

(857) 259-5340

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Γ	Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Γ	Common Stock, \$0.001 par value	VYGR	Nasdaq Global Select Market

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  $\square$  No  $\square$ 

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (\$232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes 🛛 No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer		A
Non-accelerated filer	X	S

Accelerated filer□Smaller reporting company⊠Emerging growth company□

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes 🛛 No 🛛

The number of outstanding shares of the registrant's common stock, par value \$0.001 per share, as of October 28, 2024 was 54,625,586.

#### **Forward-Looking Statements**

This Quarterly Report on Form 10-Q contains forward-looking statements that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this Quarterly Report on Form 10-Q, including statements regarding our strategy, future operations, future financial position, future revenue, projected costs, prospects, plans, objectives of management and expected market growth, are forward-looking statements. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements.

The words "anticipate," "believe," "estimate," "expect," "intend," "may," "might," "plan," "predict," "project," "target," "potential," "contemplate," "anticipate," "goals," "will," "would," "could," "should," "continue," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These forward-looking statements include, among other things, statements about:

- our plans to develop and commercialize our product candidates based on adeno-associated virus, or AAV, gene therapy and our proprietary antibodies;
- our ability to continue to develop our proprietary gene therapy platform technologies, including our TRACER<sup>TM</sup> (Tropism Redirection of AAV by Cell-type-specific Expression of RNA) discovery platform and our vectorized antibody platform, our proprietary antibody program, and our gene therapy and vectorized antibody programs;
- our ability to identify and optimize product candidates and proprietary AAV capsids;
- our strategic collaborations and licensing agreements with, and funding from, our collaboration partners Neurocrine Biosciences, Inc. and Novartis Pharma AG, and our licensee Alexion, AstraZeneca Rare Disease (successor-in-interest to former licensee Pfizer Inc.);
- our planned and initiated clinical trials and ongoing and planned preclinical development efforts, related timelines and studies;
- our ability to enter into future collaborations, strategic alliances, or option and license arrangements;
- the timing of and our ability to submit applications and obtain and maintain regulatory approvals for our product candidates, including the ability to submit investigational new drug, applications for our programs;
- our estimates regarding future revenues, expenses, contingent liabilities, existing cash resources, capital requirements and cash runway;
- our intellectual property position and our ability to obtain, maintain and enforce intellectual property protection for our proprietary assets;
- our estimates regarding the size of the potential markets for our product candidates and our ability to serve those markets;
- our need for additional funding and our plans and ability to raise additional capital, including through equity offerings, debt financings, collaborations, strategic alliances, and option and license arrangements;
- our competitive position and the success of competing products that are or might become available for the indications that we are pursuing;

- the impact of government laws and regulations including in the United States, the European Union, and other important geographies such as Japan; and
- our ability to control costs and prioritize our product candidate pipeline and platform development objectives successfully in connection with our strategic initiatives.

These forward-looking statements are only predictions, and we may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements. You should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our business, financial condition and operating results. We have included important factors in the cautionary statements included in our Annual Report on Form 10-K filed with the Securities and Exchange Commission on February 28, 2024, particularly in "Part I, Item 1A — Risk Factors," and, if applicable, our Quarterly Reports on Form 10-Q, particularly in "Part II, Item 1A — Risk Factors," that could cause actual future results or events to differ materially from the forward-looking statements that we make. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, strategic collaborations, licenses, joint ventures or investments we may make.

You should read this Quarterly Report on Form 10-Q and the documents that we have filed as exhibits to this Quarterly Report on Form 10-Q with the understanding that our actual future results may be materially different from what we expect. We do not assume any obligation to update any forward-looking statements whether as a result of new information, future events or otherwise, except as required by applicable law.

We obtained the statistical and other industry and market data in this Quarterly Report on Form 10-Q and the documents we have filed as exhibits to the Quarterly Report on Form 10-Q from our own internal estimates and research, as well as from industry and general publications and research, surveys, studies and trials conducted by third parties. Some data is also based on our good faith estimates, which are derived from management's knowledge of the industry and independent sources. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, while we believe the market opportunity information included in this Quarterly Report on Form 10-Q and the documents we have filed as exhibits to the Quarterly Report on Form 10-Q is reliable and is based upon reasonable assumptions, such data involves risks and uncertainties and are subject to change based on various factors, including those discussed under "Risk Factors" and in the documents we have filed as exhibits to the Quarterly Report on Form 10-Q. In addition, statements that "we believe" and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this Quarterly Report on Form 10-Q, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain, and investors are cautioned not to unduly rely upon these statements.

We own various U.S. federal trademark registrations and applications and unregistered trademarks, including our corporate logo. This Quarterly Report on Form 10-Q and the documents filed as exhibits to the Quarterly Report on Form 10-Q contain references to trademarks, service marks and trade names referred to in this Quarterly Report on Form 10-Q and the information incorporated herein, including logos, artwork, and other visual displays, that may appear without the **(**) or TM symbols, but such references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights or the rights of the applicable licensor to these trademarks, service marks or trade names. We do not intend our use or display of other companies' trade names, service marks or trademarks to imply a relationship with, or endorsement or sponsorship of us by, any other companies. All trademarks, service marks and trade names included or incorporated by reference into this Quarterly Report on Form 10-Q and the documents filed as exhibits to the Quarterly Report on Form 10-Q are the property of their respective owners.

## **VOYAGER THERAPEUTICS, INC.**

## FORM 10-Q

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## PART I. FINANCIAL INFORMATION

## Voyager Therapeutics, Inc. Condensed Consolidated Balance Sheets (amounts in thousands, except share and per share data) (unaudited)

	Se	ptember 30,	De	cember 31,
		2024		2023
Assets				
Current assets:				
Cash and cash equivalents	\$	112,525	\$	68,802
Marketable securities, current		232,835		162,073
Accounts receivable		15,954		80,150
Related party collaboration receivable		3,714		3,341
Prepaid expenses and other current assets		8,415		5,318
Total current assets		373,443		319,684
Property and equipment, net		15,201		16,494
Deposits and other non-current assets		2,874		1,593
Operating lease, right-of-use assets		34,523		13,510
Total assets	\$	426,041	\$	351,281
Liabilities and stockholders' equity				
Current liabilities:				
Accounts payable	\$	3,160	\$	1,604
Accrued expenses		11,442		16,823
Other current liabilities		6,979		3,200
Deferred revenue, current		22,629		42,881
Total current liabilities		44,210		64,508
Deferred revenue, non-current		12,153		32,359
Other non-current liabilities		39,368		18,094
Total liabilities		95,731		114,961
Commitments and contingencies (see note 7)				
Stockholders' equity:				
Preferred stock, \$0.001 par value: 5,000,000 shares authorized at September 30, 2024 and December 31, 2023; no shares issued and outstanding at September 30, 2024 and December 31, 2023		_		_
Common stock, \$0.001 par value: 120,000,000 shares authorized at September 30, 2024 and				
December 31, 2023; 54,542,048 and 44,038,333 shares issued and outstanding at September 30, 2024				
and December 31, 2023, respectively		55		44
Additional paid-in capital		621,985		497,506
Accumulated other comprehensive loss		(33)		(48)
Accumulated deficit		(291,697)		(261,182)
Total stockholders' equity		330,310		236,320
Total liabilities and stockholders' equity	\$	426,041	\$	351,281
	-			

The accompanying notes are an integral part of these condensed consolidated financial statements.

## Voyager Therapeutics, Inc. Condensed Consolidated Statements of Operations and Comprehensive (Loss) Income (amounts in thousands, except share and per share data) (unaudited)

	Three Months Ended September 30,			Nine Months Ende September 30,			
	2024		2023		2024		2023
Collaboration revenue	\$ 24,629	\$	4,614	\$	73,723	\$	159,947
Operating expenses:							
Research and development	30,241		25,863		91,785		66,416
General and administrative	8,168		8,258		26,926		25,580
Total operating expenses	 38,409		34,121		118,711		91,996
Operating (loss) income	 (13,780)		(29,507)	_	(44,988)		67,951
Interest income	4,579		3,429		14,334		8,567
Other income	200		—		220		3
Total other income, net	 4,779		3,429		14,554		8,570
(Loss) income before income taxes	 (9,001)		(26,078)		(30,434)		76,521
Income tax provision (benefit)	43		(177)		81		586
Net (loss) income	\$ (9,044)	\$	(25,901)	\$	(30,515)	\$	75,935
Other comprehensive (loss) income:	 	_		_			
Net unrealized gain (loss) on available-for-sale							
securities	489		(115)		15		(29)
Total other comprehensive income (loss)	 489		(115)		15		(29)
Comprehensive (loss) income	\$ (8,555)	\$	(26,016)	\$	(30,500)	\$	75,906
	 	_		-		_	
Net (loss) income per share, basic	\$ (0.16)	\$	(0.59)	\$	(0.53)	\$	1.85
Net (loss) income per share, diluted	\$ (0.16)	\$	(0.59)	\$	(0.53)	\$	1.78
	 			_			
Weighted-average common shares outstanding,	57 951 110		12 061 020		57 564 412		40.062.116
basic	 57,851,110	_	43,864,838	_	57,564,413	_	40,962,116
Weighted-average common shares outstanding, diluted	57,851,110		43,864,838		57,564,413		42,610,724

The accompanying notes are an integral part of these condensed consolidated financial statements.

## Voyager Therapeutics, Inc. Condensed Consolidated Statements of Stockholders' Equity (amounts in thousands, except share data) (unaudited)

Balance at December 31, 2022         38, 613,891         5         38         5 452,713         5         (219)         5         (39, 35,12)         59,020           Exercises of vested stock units         57,4477         -         -         -         -         -         185           Issuance of common stock in connection with the 2023         4,395,588         5         31,116         -         -         -         2,504           Unrealized gain on available-for-sale securities, net of tax         -         -         -         7         -         7         -         7         -         7         -         7         -         7         -         2,504         -         -         -         7         -         7         -         7         -         7         -         7         -         7         -         7         -         7         -         7         -         12,204         12,204         12,204         12,204         12,204         12,229         -         -         -         -         -         12,205         -         -         -         2,627         -         -         2,627         -         -         2,627         -         -         2,627		Common Sto Shares		nount	Additional Paid-In Capital	Accumulated Other Comprehensiv (Loss) Income		Accumulated Deficit	Sto	ckholders' Equity
Vesting of restricted stock units $170,77$ $100$ $  -$	Balance at December 31, 2022	38,613,891	\$	38	\$ 452,713	\$ (219	)	\$ (393,512)		59,020
Vesting of restricted stock units $374,417$ -         - <td>Exercises of vested stock options</td> <td>51,993</td> <td></td> <td>_</td> <td>185</td> <td></td> <td></td> <td>_</td> <td></td> <td>185</td>	Exercises of vested stock options	51,993		_	185			_		185
Issuance of common stock in connection with the 2023 Neureenic Collaboration Agreement         4,395,588         5         31,116         —         —         31,121           Stock-based compensation expense         —         —         2,504         —         —         2,504           Unrealized gain on available-for-sale securities, net of tax         —         —         —         —         —         124,044         124,044           Balance at March 31, 2023         43,435,889         \$         43         \$ 486,518         \$         (132)         \$         (209,468)         \$         216,961           Exercises of vested stock options         198,348         1         1,228         —         —         —         1         2229           Vesting of restricted stock under ESPP         62,344         —         418         —         —         418           Stock-based compensation expense         —         —         —         (1)         —         (1)         Westing of restricted stock units         22,208         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208)         (22,208	Vesting of restricted stock units			_	_			_		_
Stock-based compensation expense				-						
Unrealized gain on available-for-sale securities, net of tax	-	4,395,588		5	.,			_		. ,
Net income		_		_	2,504			_		, i
Balance at March 31, 2023         43,455.89         5         43         548,518         5         (132)         5         (250,946)         5         (250,946)         5         (250,946)         5         (250,946)         5         (250,946)         5         (250,946)         5         (250,946)         5         (250,946)         5         (120,946)         5	• • • • • • • • • • • • • • • • • • •	-		-		87		_		
Exercises of vested stock options       198,348       1       1,228       —       —       —       1,229         Vesting of restricted stock units       62,828       —       —       —       —       —       —       —       —       —       —       —       —       —       …				—			-	<i></i>	_	
Vesting of restricted stock units       62,828       -			\$			\$ (132	) :	\$ (269,468)	\$	
Issuance of common stock under ESPP $62,344$ -       418       -       -       418         Stock-based compensation expense       -       - $2,627$ -       - $2,627$ Unrealized loss on available-for-sale securities, net of tax       -       -       (1)       -       (1)       -       (1)         Balance at June 30, 2023       43,759,409       \$       44       \$ 490,791       \$       (13)       \$       (22,208)         Exercises of vested stock options       127,252       -       415       -	•	198,348		1	1,228	_		—		1,229
Bod-based compensation expense       -       -       -       -       -       -       -       -       -       2,627       -       -       2,627         Unrealized loss on available-for-sale securities, net of tax       -       -       -       -       -       (1)       -       (1)       -       (1)         Net loss       -       -       -       -       -       (22,08)       (21,08)       (21,08		62,828		-	_			-		-
Unrealized loss on available-for-sale securities, net of tax		62,344		—	418			—		418
Net loss	· ·	-		-	2,627	_		-		2,627
Balance at June 30, 2023       43,759,409       \$ <ul> <li>44</li> <li>540,759,409</li> <li>\$             <li>44</li> <li>540,759,50</li> <li>-</li> <li>-&lt;</li></li></li></li></li></li></li></li></ul>		—		—	_	(1	)	_		(1)
Exercises of vested stock options $127,252$ $ 415$ $   -$	Net loss						_	(22,208)		(22,208)
Vesting of restricted stock units       22,500       -       -       -       -       -         Stock-based compensation expense	Balance at June 30, 2023	43,759,409	\$	44	\$ 490,791	\$ (133	)	\$ (291,676)	\$	199,026
Stock-based compensation expense	Exercises of vested stock options	127,252		_	415	_		_		415
Unrealized loss on available-for-sale securities, net of tax	Vesting of restricted stock units	22,500		_	_	_		_		_
Net loss	Stock-based compensation expense	_		_	2,795	_		_		2,795
Net loss	Unrealized loss on available-for-sale securities, net of tax	_		_	_	(115	)	_		(115)
Balance at September 30, 2023       43,909,161       \$ 44       \$ 494,001       \$ (248)       \$ (317,577)       \$ 176,220         Balance at December 31, 2023       44,038,333       \$ 44       \$ 497,506       \$ (48)       \$ (261,182)       \$ 236,320         Exercises of vested stock options       32,500       -       78       -       -       78         Vesting of restricted stock units       324,520       -       -       -       -       -         Issuance of common stock in connection with the 2023       324,520       2       19,303       -       -       19,305         Issuance of common stock and pre-funded warrants in connection with underwritten public offering       7,777,778       8       93,465       -       -       3,498         Unrealized loss on available-for-sale securities, net of tax       -       -       3,498       -       -       -       94,433         Balance at March 31, 2024       54,318,133       \$ 54       \$ 613,850       \$ (506)       \$ (272,512)       \$ 340,886         Exercises of vested stock options       25,958       -       90       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <td< td=""><td>Net loss</td><td>_</td><td></td><td>_</td><td></td><td></td><td></td><td>(25,901)</td><td></td><td>(25,901)</td></td<>	Net loss	_		_				(25,901)		(25,901)
The securities of vested stock options210,220Vesting of restricted stock units $32,500$ $ 78$ $  78$ Issuance of common stock in connection with the 2023 Novarits Stock Purchase Agreement $32,4520$ $    -$ Issuance of common stock and pre-funded warrants in connection with underwritten public offering $7,777,778$ $8$ $93,465$ $  93,473$ Stock-based compensation expense $  3,498$ $  3,498$ Unrealized loss on available-for-sale securities, net of tax $   458$ $  93,473$ Balance at March 31, 2024 $54,318,133$ $$$ $54$ $$ 613,850$ $$$ $(506)$ $$ (272,512)$ $$$ $340,886$ Exercises of vested stock outies $25,958$ $ 90$ $   -$ Issuance of common stock under ESPP $71,473$ $ 639$ $   -$ Balance at June 30, 2024 $54,472,113$ $$$ $$ 54$ $$ 618,538$ $$ (522)$ $$ (282,653)$ $$ 335,417$ Vesting of restricted stock units $       -$ Balance at June 30, 2024 $54,472,113$ $$ 54$ $$ 618,538$ $$ (522)$ $$ (282,653)$ $$ 335,417$ Vesting of restricted stock units $2,2923$ $    -$ Stock-based compensation expense </td <td>Balance at September 30, 2023</td> <td>43,909,161</td> <td>\$</td> <td>44</td> <td>\$ 494,001</td> <td>\$ (248</td> <td>)</td> <td>\$ (317,577)</td> <td>\$</td> <td></td>	Balance at September 30, 2023	43,909,161	\$	44	\$ 494,001	\$ (248	)	\$ (317,577)	\$	
Exercises of vested stock options $32,500$ $ 78$ $  78$ Vesting of restricted stock units $324,520$ $  -$	Balance at December 31, 2023	44 038 333	s	44	\$ 497 506	\$ (48		\$ (261.182)	\$	236 320
Vesting of restricted stock units $324,520$ -       -<	Exercises of vested stock options		Ψ	_		\$ (10	, .	(201,102)	Ψ	, í
Issuance of common stock in connection with the 2023 Novartis Stock Purchase Agreement       2,145,002       2       19,303       -       -       19,305         Issuance of common stock and pre-fuded warrants in connection with underwritten public offering       7,777,778       8       93,465       -       -       93,473         Stock-based compensation expense       -       -       3,498       -       -       3,498         Unrealized loss on available-for-sale securities, net of tax       -       -       -       4(458)       -       (458)         Net loss       -       -       -       -       -       -       90       -       3,498       -       -       3,498       -       -       3,498       -       -       3,498       -       -       3,498       -       -       -       -       -       -       -       -       -       -       -       -	Vesting of restricted stock units				78					78
Issuance of common stock and pre-funded warrants in connection with underwritten public offering       7,777,778       8       93,465       —       —       93,473         Stock-based compensation expense	Issuance of common stock in connection with the 2023									
connection with underwritten public offering       7,777,778       8       93,465         93,473         Stock-based compensation expense       -       3,498         3,498         Unrealized loss on available-for-sale securities, net of tax         (458)        (458)         Net loss         (458)        (458)       (11,330)         Balance at March 31, 2024       54,318,133       \$ 54       \$ 613,850       \$ (506)       \$ (272,512)       \$ 340,886         Exercises of vested stock options       25,958        90              90		2,145,002		2	19,303			_		19,305
Unrealized loss on available-for-sale securities, net of tax $   -$		7,777,778		8	93,465	_		_		93,473
Net loss	Stock-based compensation expense	_		_	3,498	_		_		3,498
Balance at March 31, 2024 $(11,350)$ $(11,350)$ $(11,350)$ Balance at March 31, 2024 $54,318,133$ $54$ $\$ 613,850$ $\$$ $(506)$ $\$$ $(272,512)$ $\$$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$ $∗$	Unrealized loss on available-for-sale securities, net of tax	_		_	_	(458	)	_		(458)
Exercises of vested stock options       25,958       -       90       -       -       90         Vesting of restricted stock units       56,549       - <td< td=""><td>Net loss</td><td></td><td></td><td>_</td><td>_</td><td>_</td><td></td><td>(11,330)</td><td></td><td>(11,330)</td></td<>	Net loss			_	_	_		(11,330)		(11,330)
Vesting of restricted stock units $56,549$ $  -$	Balance at March 31, 2024	54,318,133	\$	54	\$ 613,850	\$ (506	) :	\$ (272,512)	\$	340,886
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				—	90					90
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				_	639			_		639
Net loss            (10,141)         (10,141)           Balance at June 30, 2024         54, 472,113         \$ 54         \$ 618,538         \$ (222)         \$ (282,653)         \$ 335,417           Exercises of vested stock options         27,642         -         92         -         -         92           Vesting of restricted stock units         42,293         1         -         -         92           Stock-based compensation expense         -         -         3,355         -         -         3,355           Unrealized gain on available-for-sale securities, net of tax         -         -         -         489         -         489           Net loss         -         -         -         -         (9,044)         (9,044)	Stock-based compensation expense			—	3,959		、 、	—		
Balance at June 30, 2024         54,472,113         \$ 54         \$ 618,538         \$ (522)         \$ (282,653)         \$ 335,417           Exercises of vested stock options         27,642         —         92         —         —         92           Vesting of restricted stock units         42,293         1         —         —         1         1           Stock-based compensation expense         —         —         3,355         —         —         3,355           Unrealized gain on available-for-sale securities, net of tax         —         —         —         489         —         489           Net loss         —         —         —         —         —         (9,044)         (9,044)				_	_	(16	)	(10.141)		
Vesting of restricted stock units     42,293     1     -     -     1       Stock-based compensation expense     -     -     3,355     -     -     3,355       Unrealized gain on available-for-sale securities, net of tax     -     -     -     489     -     489       Net loss     -     -     -     -     49     -     489	Balance at June 30, 2024		\$	54		\$ (522	)		\$	335,417
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					92	_				
Net loss (9,044) (9,044)	Stock-based compensation expense	-2,295		_	3,355	_		_		3,355
		-		_	_	489		(9.044)		
	Balance at September 30, 2024	54,542,048	\$	55	\$ 621,985	\$ (33	)	(. ). /	\$	

The accompanying notes are an integral part of these condensed consolidated financial statements.

## Voyager Therapeutics, Inc. Condensed Consolidated Statements of Cash Flows (amounts in thousands) (unaudited)

	Nine Month		
	 Septemb 2024	er 30.	2023
Cash flow from operating activities	 2021		2020
Net (loss) income	\$ (30,515)	\$	75,935
Adjustments to reconcile net (loss) income to net cash (used in) provided by operating activities:	()		,.
Stock-based compensation expense	11,048		8,108
Depreciation	3,720		3,106
Impairment charge on leased facility	2,776		
Amortization of premiums and discounts on marketable securities	(6,456)		(1,832)
Loss on disposal of fixed assets	478		143
Changes in operating assets and liabilities:			
Accounts receivable	64,196		—
Related party collaboration receivable	(373)		(2,996)
Prepaid expenses and other current assets	(3,097)		(342)
Operating lease, right-of-use asset	3,423		1,459
Accounts payable	1,556		704
Accrued expenses	(5,381)		3,236
Operating lease liabilities	(1,698)		(2,102)
Deferred revenue	 (40,458)		16,260
Net cash (used in) provided by operating activities	 (781)		101,679
Cash flow from investing activities			
Purchases of property and equipment	(3,366)		(2,501)
Purchases of marketable securities	(334,667)		(194,975)
Proceeds from sales and maturities of marketable securities	 270,377		29,000
Net cash used in investing activities	(67,656)		(168,476)
Cash flow from financing activities	 <u> </u>		
Proceeds from the exercise of stock options	261		1,829
Proceeds from the issuance of common stock in connection with the underwritten public offering	93,473		—
Proceeds from the issuance of common stock in connection with the 2023 Novartis Stock Purchase Agreement	19,305		—
Proceeds from the issuance of common stock in connection with the 2023 Neurocrine Collaboration Agreement	_		31,121
Proceeds from the purchase of common stock under ESPP	 402		235
Net cash provided by financing activities	113,441		33,185
Net increase (decrease) in cash, cash equivalents, and restricted cash	 45,004		(33,612)
Cash, cash equivalents, and restricted cash, beginning of period	70,395		100,474
Cash, cash equivalents, and restricted cash, end of period	\$ 115,399	\$	66,862
Supplemental disclosure of cash and non-cash activities			
Operating lease right-of-use asset obtained in exchange for operating lease liability	\$ 26,751	\$	—

The accompanying notes are an integral part of these condensed consolidated financial statements.

## **VOYAGER THERAPEUTICS INC.**

## NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

## 1. Nature of business

Voyager Therapeutics, Inc. (the "Company") is a biotechnology company whose mission is to leverage the power of human genetics to modify the course of and ultimately cure neurological diseases. The Company's pipeline includes programs for Alzheimer's disease; amyotrophic lateral sclerosis; Parkinson's disease, and multiple other diseases of the central nervous system. Many of the Company's programs are derived from its TRACER<sup>™</sup> adeno-associated virus ("AAV") capsid discovery platform, which the Company has used to generate novel capsids ("TRACER Capsids") and identify associated receptors to potentially enable high brain penetration with genetic medicines following intravenous dosing. Some of the Company's programs are wholly-owned, and some are advancing with licensees and collaborators including Alexion, AstraZeneca Rare Disease; Novartis Pharma AG, ("Novartis"); and Neurocrine Biosciences, Inc. ("Neurocrine").

The Company has a history of incurring annual net operating losses. As of September 30, 2024, the Company had an accumulated deficit of \$291.7 million. The Company has not generated any product revenue and has financed its operations primarily through public offerings and private placements of its equity securities, funding from fees, option exercise payments, and milestone payments, and cost reimbursements associated with its prior and ongoing collaborations and license agreements.

As of September 30, 2024, the Company had cash, cash equivalents, and marketable securities of \$345.4 million. Based upon the Company's current operating plans, the Company expects that its existing cash, cash equivalents, and marketable securities at September 30, 2024 to be sufficient to meet the Company's planned operating expenses and capital expenditure requirements for at least twelve months from the issuance of these consolidated financial statements.

There can be no assurance that the Company will be able to obtain additional debt or equity financing on terms acceptable to the Company or generate product revenue or revenue from collaboration partners, on a timely basis or at all. The failure of the Company to obtain sufficient funds on acceptable terms when needed could have a material adverse effect on the Company's business, results of operations, and financial condition.

#### 2. Summary of significant accounting policies and basis of presentation

#### Basis of Presentation

The accompanying unaudited condensed consolidated financial statements of the Company have been prepared in accordance with accounting principles generally accepted in the United States ("GAAP") for interim financial reporting. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements. For further information, refer to the consolidated financial statements and footnotes included in the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2023 as filed with the Securities and Exchange Commission ("SEC") on February 28, 2024. These interim condensed consolidated financial statements, in the opinion of management, reflect all normal recurring adjustments necessary for a fair presentation of the Company's financial position and results of operations for the periods presented. Any reference in these notes to applicable guidance is meant to refer to the authoritative United States generally accepted accounting principles as found in the Accounting Standards Codification and Accounting Standards Updates of the Financial Accounting Standards Board.

#### Principles of Consolidation

The unaudited interim consolidated financial statements include the accounts of the Company and its whollyowned subsidiary as disclosed in Note 2, under the heading "Summary of Significant Accounting Policies and Basis of Presentation," within the "Notes to Consolidated Financial Statements" accompanying the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2023. Intercompany balances and transactions have been eliminated.

## Use of Estimates

The preparation of consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. On an ongoing basis, the Company's management evaluates its estimates, which include, but are not limited to, estimates related to revenue recognition, incremental borrowing rate for leases, accrued expenses, stock-based compensation expense, and income taxes. The Company bases its estimates on historical experience and other market-specific or other relevant assumptions that it believes to be reasonable under the circumstances. Actual results may differ from those estimates or assumptions.

#### Summary of Significant Accounting Policies

There have been no changes in the Company's significant accounting policies as described in Note 2, "Summary of Significant Accounting Policies and Basis of Presentation," within the "Notes to Consolidated Financial Statements" accompanying the Company's Annual Report on Form 10-K for the year ended December 31, 2023.

## 3. Fair value measurements

Assets and liabilities measured at fair value on a recurring basis as of September 30, 2024 and December 31, 2023 are as follows:

<u>Assets</u> September 30, 2024	 Total	N Ide	noted Prices in Active larkets for ntical Assets (Level 1) (in tho	(	Significant Other Dbservable Inputs (Level 2) ds)	Unc	gnificant observable Inputs Level 3)
Money market funds included in cash and cash							
equivalents	\$ 106,492	\$	106,492	\$		\$	
Marketable securities:							
U.S. Treasury notes	77,920		77,920		—		
U.S. Government agency securities	24,655		24,655				
Certificates of deposit	5,461		—		5,461		
Corporate bonds	102,083		—		102,083		_
Commercial paper	22,715		—		22,715		
Total money market funds and marketable securities	\$ 339,326	\$	209,067	\$	130,259	\$	_
December 31, 2023		_		_			
Money market funds included in cash and cash							
equivalents	\$ 65,589	\$	65,589	\$	_	\$	
Marketable securities:							
U.S. Treasury notes	103,044		103,044				
U.S. Government agency securities	31,075		31,075		_		
Corporate bonds	23,970		_		23,970		
Commercial paper	3,985				3,985		
Total money market funds and marketable		-					
securities	\$ 227,663	\$	199,708	\$	27,955	\$	

The Company measures the fair value of money market funds, U.S. Treasury notes and U.S. Government agency securities based on quoted prices in active markets for identical securities. The Company measures the fair value of the Level 2 securities, certificates of deposit, corporate bonds and commercial paper based on recent trades of securities in active markets or based on quoted market prices of similar instruments and other significant inputs derived from or corroborated by observable market data.

## 4. Cash, cash equivalents, restricted cash, and available-for-sale marketable securities

Cash, cash equivalents, and marketable securities included the following at September 30, 2024 and December 31, 2023:

	Amortized Cost		U	Unrealized <u>Gains</u> <i>(in thousa</i> )		Unrealized Losses Dusands)		Fair Value
As of September 30, 2024								
Money market funds included in cash and cash								
equivalents	\$	106,492	\$	_	\$	_	\$	106,492
Marketable securities:								
U.S. Treasury notes		77,846		74		_		77,920
U.S. Government agency securities		24,644		13		(2)		24,655
Certificates of deposit		5,449		12		_		5,461
Corporate bonds		102,077		55		(49)		102,083
Commercial paper		22,724		4		(13)		22,715
Total money market funds and marketable securities	\$	339,232	\$	158	\$	(64)	\$	339,326
As of December 31, 2023								
Money market funds included in cash and cash								
equivalents	\$	65,589	\$	_	\$	—	\$	65,589
Marketable securities:								
U.S. Treasury notes		102,966		81		(3)		103,044
U.S. Government agency securities		31,068		10		(3)		31,075
Corporate bonds		23,975		2		(7)		23,970
Commercial paper		3,985		_				3,985
Total money market funds and marketable securities	\$	227,583	\$	93	\$	(13)	\$	227,663

All of the Company's marketable securities as of September 30, 2024 have a contractual maturity of one year or less.

The Company reviews investments whenever the fair value of an investment is less than the amortized cost and evidence indicates that an investment's carrying amount is not recoverable within a reasonable period of time. In connection with these investments, the Company evaluates whether the decline in fair value has resulted from credit losses or other factors, considering the extent to which fair value is less than amortized cost, any changes to the rating of the security by a rating agency, and adverse conditions specifically related to the security, among other factors. If this assessment indicates that a credit loss exists, the present value of cash flows expected to be collected from the security is compared to the amortized cost basis of the security. If the present value of cash flows expected to be collected is less than the amortized cost basis, a credit loss exists and an allowance for credit losses is recorded for the credit loss on the condensed consolidated balance sheet, limited by the amount that the fair value is less than the amortized cost basis. Any impairment that is not related to credit is recognized in other comprehensive (loss) income. Changes in the allowance for credit losses are recorded as a provision for (or reversal of) credit loss expense in general and administrative expenses within the condensed consolidated statement of operations. Losses are charged against the allowance when the Company believes the uncollectability of an available-for-sale security is confirmed or when either of the criteria regarding intent or requirement to sell is met.

The Company held \$96.0 million and \$44.2 million in marketable securities that were in an unrealized loss position as of September 30, 2024 and December 31, 2023, respectively. The unrealized losses at September 30, 2024 and December 31, 2023 were attributable to changes in interest rates and do not represent credit losses. The Company does not intend to sell these securities and it is not more likely than not that it will be required to sell them before recovery of their amortized cost basis.

The following table provides a reconciliation of cash, cash equivalents, and restricted cash within the condensed consolidated balance sheets that sum to the total of the same such amounts shown in the condensed consolidated statements of cash flows:

	As of	September 30,	As of	f December 31,
		2024		2023
		(in tho	ısand	s)
Cash and cash equivalents	\$	112,525	\$	68,802
Restricted cash included in deposits and other non-current assets		2,874		1,593
Total cash, cash equivalents, and restricted cash	\$	115,399	\$	70,395

## 5. Accrued expenses

Accrued expenses as of September 30, 2024 and December 31, 2023 consist of the following:

	<u>ptember 30,</u> 2024	As of	<u>December 31,</u> 2023
	 (in tho	usands)	
Employee compensation costs	\$ 5,927	\$	6,614
Research and development costs	3,972		5,225
Accrued goods and services	530		4,229
Professional services	1,013		755
Total	\$ 11,442	\$	16,823

## 6. Lease obligation

#### **Operating Leases**

As of September 30, 2024, the Company has a lease for laboratory and office space at 75 Hayden Avenue in Lexington, Massachusetts through January 31, 2031 and a lease for additional office and laboratory space at 64 Sidney Street in Cambridge, Massachusetts (the "Cambridge Facility") through November 30, 2026.

On August 11, 2023, the Company entered into a first amendment (the "First Amendment") to its existing lease for laboratory and office space at 75 Hayden Avenue in Lexington, Massachusetts, pursuant to which the Company agreed to lease approximately 61,307 square feet of additional office and laboratory space through January 31, 2031. The Company received \$1.8 million of leasehold improvement incentives associated with the First Amendment. The Company gained control of the space on February 1, 2024 and recorded a \$26.7 million right-of-use asset and a \$26.7 million operating lease liability, accordingly, which reflect the leasehold improvement incentive.

The Company's lease agreements require the Company to maintain a cash deposit or irrevocable letter of credit in the aggregate amount of \$2.9 million payable to its landlords as security for the performance of its obligations under the leases. These amounts are recorded as restricted cash and are included in deposits and other non-current assets in the accompanying condensed consolidated balance sheets.

In June 2024, the Company vacated its leased office and laboratory space in Cambridge, Massachusetts. The Company recorded an impairment charge of \$2.8 million to operating expenses during the second quarter of 2024 as a result of the carrying value of the leased office and laboratory space asset group exceeding the undiscounted cash flows projected from a planned sublease of the facility. The impairment charge reduced the carrying value of the leased office and laboratory space asset group exceeding the undiscounted cash flows projected from a planned sublease of the facility. The impairment charge reduced the carrying value of the leased office and laboratory space asset group by \$2.8 million. On August 2, 2024, the Company executed the sublease of the Cambridge Facility. Payments received under the sublease are included in other income in the condensed consolidated

statements of operations and comprehensive (loss) income. During the three and nine months ended September 30, 2024, the Company recognized \$0.2 million of other income from its sublease of the Cambridge Facility.

During the three and nine months ended September 30, 2024, the Company incurred lease expenses of \$1.9 million and \$8.0 million, respectively. During the three and nine months ended September 30, 2023, the Company incurred lease expenses of \$0.9 million and \$2.7 million, respectively, for operating leases. As of September 30, 2024, the weighted average remaining lease term was 4.9 years and the weighted average incremental borrowing rate used to determine the operating lease liability was 6.8%.

## 7. Commitments, contingencies and other liabilities

As of September 30, 2024 and December 31, 2023, other current and non-current liabilities consisted of the following:

	As of	As of September 30,		f December 31,
		2024		2023
		(in tho	usands)	
Other current liabilities				
Lease liability		6,979		3,200
Total other current liabilities	\$	6,979	\$	3,200
Other non-current liabilities				
Lease liability	\$	38,368	\$	17,093
Other		1,000		1,001
Total other non-current liabilities	\$	39,368	\$	18,094

### **Other Agreements**

In 2016, the Company entered into a research and development funding arrangement with a non-profit organization that provided up to \$4.0 million in funding to the Company upon the achievement of clinical and development milestones. The agreement as amended in 2022 provides that the Company is obligated to repay amounts received under certain circumstances including termination of the agreement, and to pay an amount up to 2.6 times the funding received upon successful development and commercialization of any products developed. In 2017, the Company earned a milestone payment of \$1.0 million. The Company evaluated the arrangement and concluded that it represents a research and development financing arrangement as it is probable that the Company will repay amounts received under the arrangement. As a result, the \$1.0 million is recorded as a non-current liability in the condensed consolidated balance sheet.

#### Litigation

The Company was not a party to any material legal matters or claims as of September 30, 2024, or December 31, 2023. The Company did not have contingency reserves established for any litigation liabilities as of September 30, 2024, or December 31, 2023.

#### 8. Significant agreements

The Company's significant agreements are described in Note 9 of the December 31, 2023 consolidated financial statements included in its Annual Report on Form 10-K for the year ended December 31, 2023. During the three and nine months ended September 30, 2024, there were no material changes to the terms of the Company's collaboration agreements with Neurocrine and the Company did not enter into any new collaboration or license agreements. On September 3, 2024, the Company entered into an amendment to its existing option and license agreement with Novartis dated March 4, 2022 (the "2022 Novartis Option and License Agreement"). The Company recorded collaboration revenue of \$24.6 million and \$4.6 million during the three months ended September 30, 2024 and 2023, respectively.

The Company recorded collaboration revenue of \$73.7 million and \$159.9 million during the nine months ended September 30, 2024 and 2023, respectively.

## 2022 Novartis Option and License Agreement

On September 3, 2024 (the "Amendment Effective Date"), the Company and Novartis entered into an amendment (the "Novartis Amendment") to the 2022 Novartis Option and License Agreement. Pursuant to the Novartis Amendment, the Company and Novartis agreed to amend the 2022 Novartis Option and License Agreement to incorporate the grant from the Company to Novartis of an additional license (the "Novartis Direct License") to a capsid discovered through the Company's TRACER discovery platform (the "Novartis Direct Licensed Capsid") for exclusive use with a certain gene (the "Novartis Direct License Target") to develop and commercialize the Novartis Direct Licensed Capsid as incorporated into products containing a payload directed to the Novartis Direct License Target ("Novartis Direct Licensed Products"). As a result of the Novartis Amendment, the Novartis Direct License Target is now deemed a Licensed Target under the 2022 Novartis Option and License Agreement, as such term is defined therein, and the Novartis Direct License is subject to all other terms and conditions applicable to licenses granted to Novartis under the 2022 Novartis Option and License Agreement. Novartis agreed to pay to the Company a one-time fee of \$15.0 million in consideration for the rights granted under the Novartis Amendment, which was received in October 2024. The Company evaluated the Novartis Amendment under ASC 606 and recorded \$15.0 million as collaboration revenue in the three months ended September 30, 2024 since the consideration reflected the standalone selling price of the license that was delivered on the Novartis Amendment date, and there were no remaining undelivered performance obligations under the original 2022 Novartis Option and License Agreement. The Company is eligible to receive specified development, regulatory, and commercialization milestone payments of up to an aggregate of \$130.0 million for the first Novartis Direct Licensed Product to achieve the corresponding milestone. On a Novartis Direct Licensed Product-by-Novartis Direct Licensed Product basis, the Company is also eligible to receive (a) specified sales milestone payments of up to an aggregate of \$175.0 million per Novartis Direct Licensed Product and (b) tiered, escalating royalties in the mid- to high-single-digit percentages of annual net sales of each Novartis Direct Licensed Product.

#### 2023 Neurocrine Collaboration Agreement

In April 2024, the Company announced that the joint steering committee with Neurocrine selected a development candidate for the glucocerebrosidase 1 gene therapy program for Parkinson's disease and other GBA1-mediated diseases (the "GBA1 program") under the collaboration and license agreement with Neurocrine entered into in January 2023 (the "2023 Neurocrine Collaboration Agreement"). The joint steering committee selection of a development candidate for the GBA1 Program triggered a \$3.0 million milestone payment to the Company. The Company recorded the \$3.0 million as collaboration revenue during the second quarter of 2024.

In September 2024, the Company announced that the joint steering committee with Neurocrine selected a development candidate in a gene therapy program for the potential treatment of an undisclosed neurological disease under the 2023 Neurocrine Collaboration Agreement, which triggered a \$3.0 million milestone payment to the Company which was received in October 2024. The Company included the \$3.0 million that had previously been constrained in the transaction price allocated to the program's performance obligation in the three months ended September 30, 2024, accordingly, which resulted in a cumulative catch-up adjustment to collaboration revenue of approximately \$2.0 million.

## 2023 Novartis Stock Purchase Agreement

Under the stock purchase agreement entered into in December 2023 (the "2023 Novartis Stock Purchase Agreement"), Novartis purchased 2,145,002 shares of common stock of the Company (the "Novartis Shares") for an aggregate purchase price of approximately \$20.0 million. The issuance of the Novartis Shares to Novartis pursuant to the 2023 Novartis Stock Purchase Agreement in January 2024 resulted in a premium of \$0.7 million. The premium was allocated to the development and commercialization licenses granted to Novartis for two programs pursuant to the license and collaboration agreement with Novartis entered into in December 2023 and was recognized as collaboration revenue during the first quarter of 2024, upon the issuance of the Novartis Shares under the 2023 Novartis Stock Purchase Agreement.

## 2019 Neurocrine Collaboration Agreement

In February 2024, the Company announced that the joint steering committee with Neurocrine selected a lead development candidate for the gene therapy program for Friedreich's ataxia (the "FA Program") under the collaboration and license agreement with Neurocrine entered into in January 2019 (the "2019 Neurocrine Collaboration Agreement"), which triggered a \$5.0 million milestone payment to the Company that was received in the first quarter of 2024. The Company included the \$5.0 million that had previously been constrained in the transaction price allocated to the FA Program performance obligation in the three months ended March 31, 2024, accordingly, which resulted in a cumulative catch-up adjustment to collaboration revenue of \$4.4 million.

## **Related Party Collaboration Receivable**

The following table presents changes in the balances of the Company's related party collaboration receivable and contract liabilities for the 2023 Neurocrine Collaboration Agreement and the 2019 Neurocrine Collaboration Agreement during the nine months ended September 30, 2024:

	Ba	lance at					Balance at
	Decem	ber 31, 2023	 Additions		Deductions	Sept	ember 30, 2024
			(in the	ousa	nds)		
Related party collaboration receivables	\$	3,341	\$ 11,895	\$	(11,522)	\$	3,714
Contract liabilities:							
Deferred revenue	\$	75,240	\$ 1,592	\$	(42,050)	\$	34,782

The change in the related party collaboration receivable balance for the nine months ended September 30, 2024 is primarily driven by amounts owed to the Company for research and development services provided, offset by amounts collected during the period, for the 2023 and 2019 Neurocrine Collaboration Agreements. Deferred revenue activity for the period includes the recording of \$1.6 million of deferred revenue during the nine months ended September 30, 2024 related to fixed transaction price allocation increases, offset by \$42.1 million of collaboration revenue recognized on the proportional performance model during the period for the 2023 and 2019 Neurocrine Collaboration Agreements, which is classified as either current or non-current in the accompanying consolidated balance sheet based on the period the services are expected to be delivered.

#### 9. Stock-based compensation

#### Stock-Based Compensation Expense

Total compensation cost recognized for all stock-based compensation awards in the condensed consolidated statements of operations and comprehensive (loss) income was as follows:

		Three Mo	nths	Ended		Nine Mor	ths E	Inded
	September 30,				Septen	September 30,		
		2024		2023		2024		2023
				(in the	nusc	inds)		
Research and development	\$	1,590	\$	919	\$	4,495	\$	2,472
General and administrative		1,844		1,959		6,553		5,636
Total stock-based compensation expense	\$	3,434	\$	2,878	\$	11,048	\$	8,108

Stock-based compensation expense by type of award included within the condensed consolidated statements of operations and comprehensive (loss) income was as follows:

	Three Months EndedSeptember 30,20242023				Nine Moi Septen		
		2024		2023		2024	2023
				(in the	ousc	inds)	
Stock options	\$	2,373	\$	2,021	\$	7,357	\$ 5,587
Restricted stock awards and units		983		774		3,454	2,339
Employee stock purchase plan awards		78		83		237	182
Total stock-based compensation expense	\$	3,434	\$	2,878	\$	11,048	\$ 8,108

## **Restricted Stock Units**

A summary of the status of and changes in unvested restricted stock unit activity under the Company's equity award plans for the nine months ended September 30, 2024 was as follows:

	Units	A Gr Fa	/eighted werage ant Date ir Value er Unit
Unvested restricted stock units as of December 31, 2023	1,370,897	\$	6.65
Granted	867,558	\$	8.15
Vested	(423,362)	\$	6.23
Forfeited	(198,076)	\$	6.68
Unvested restricted stock units as of September 30, 2024	1,617,017	\$	7.56

Stock-based compensation of restricted stock units is based on the fair value of the Company's common stock on the date of grant and is recognized over the vesting period. All of the restricted stock units granted in the nine months ended September 30, 2024 vest in equal amounts, annually over three years. The stock-based compensation expense related to restricted stock units was \$1.0 million and \$3.5 million for the three and nine months ended September 30, 2024, respectively. The stock-based compensation expense related to restricted stock units was \$0.8 million and \$2.3 million for the three and nine months ended September 30, 2023, respectively.

As of September 30, 2024, the Company had unrecognized stock-based compensation expense related to its unvested restricted stock units of \$9.1 million, which is expected to be recognized over the remaining average vesting period of 2.1 years.

## Stock Options

The following is a summary of stock option activity for the nine months ended September 30, 2024:

	Shares	A	Veighted Average Exercise Price	Remaining Contractual Life <i>(in years)</i>	Aggregate Intrinsic Value (in thousands)
Outstanding at December 31, 2023	7,425,444	\$	8.52		
Granted	2,325,226	\$	7.79		
Exercised	(86,100)	\$	4.11		
Cancelled or forfeited	(793,242)	\$	11.69		
Outstanding at September 30, 2024	8,871,328	\$	8.08	7.5	3,756
Exercisable at September 30, 2024	4,604,321	\$	8.51	6.4	2,777

As of September 30, 2024, the Company had unrecognized stock-based compensation expense related to its unvested stock options of \$20.1 million which is expected to be recognized over the remaining weighted-average vesting period of 2.7 years.

## 10. Net (loss) income per share

The following table sets forth the outstanding potentially dilutive securities that have been excluded in the calculation of diluted net (loss) income per share because to include them would be anti-dilutive:

	Three Months Ende	d September 30,	Nine Months Ende	l September 30,		
	2024	2023	2024	2023		
Unvested restricted						
common stock awards		22,500	—	22,500		
Unvested restricted						
common stock units	1,617,017	1,312,727	1,617,017	714,164		
Outstanding stock						
options	8,871,328	7,745,593	8,871,328	6,695,548		
Total	10,488,345	9,080,820	10,488,345	7,432,212		

Basic and diluted net (loss) income per share and diluted weighted-average shares outstanding are as follows for the three and nine months ended September 30, 2024 and 2023:

	1	Three Months E	ıde	d September 30,	Nine Months Ended September 3			
	_	2024	_	2023	2024	_	2023	
Numerator:								
Net (loss) income (in thousands)	\$	(9,044)	\$	(25,901)\$	(30,515)	\$	75,935	
Denominator for basic net (loss) income per share:			_			_		
Weighted average shares outstanding-basic		57,851,110		43,864,838	57,564,413		40,962,116	
Denominator for diluted net (loss) income per share:								
Weighted average shares outstanding-basic		57,851,110		43,864,838	57,564,413		40,962,116	
Common stock options and restricted stock units		—			—		1,648,608	
Weighted average shares outstanding-diluted	_	57,851,110	_	43,864,838	57,564,413	_	42,610,724	
			-			-		
Net (loss) income per share, basic:	\$	(0.16)	\$	(0.59)\$	(0.53)	\$	1.85	
Net (loss) income per share, diluted:	\$	(0.16)	\$	(0.59)\$	(0.53)	\$	1.78	

The pre-funded warrants issued in connection with the underwritten public offering discussed in Note 11 are included in basic and diluted weighted average shares outstanding for the three and nine months ended September 30, 2024.

## 11. Underwritten public offering

On January 4, 2024, the Company entered into an underwriting agreement (the "Underwriting Agreement") with Citigroup Global Markets Inc. and Guggenheim Securities, LLC, as representatives of the several underwriters named therein (the "Underwriters"), relating to an underwritten public offering of 7,777,778 shares of the Company's common stock, par value \$0.001 per share, and, in lieu of common stock to certain investors, pre-funded warrants (the "Pre-Funded Warrants") to purchase up to 3,333,333 shares of common stock. The Underwriters agreed to purchase the Company's stock from the Company pursuant to the Underwriting Agreement at a price of \$8.46 and the Pre-Funded Warrants.

On January 9, 2024, the Company issued 7,777,778 shares of common stock and 3,333,333 Pre-Funded Warrants for net proceeds of approximately \$93.5 million after deducting underwriting discounts and commissions and offering expenses pursuant to the underwritten public offering. The Pre-Funded Warrants met the equity classification guidance and therefore are classified as stockholders' equity.

## 12. Related-party transactions

During the three and nine months ended September 30, 2024, the Company received scientific advisory board and other scientific advisory services from Dinah Sah, Ph.D., the Company's former Chief Scientific Officer. The total amount of fees paid to Dr. Sah for services provided during the three and nine months ended September 30, 2024, was \$150,000 and \$450,000, respectively. The total amount of fees paid to Dr. Sah for services provided during the three and nine months ended September 30, 2023 was \$157,500 and \$541,300, respectively. During the second quarter of 2023, the Company and Dr. Sah agreed to a fee of \$50,000 per month for advisory services from Dr. Sah pursuant to an amendment to the Company's consulting agreement with Dr. Sah that became effective in June 2023.

Under each of the Company's collaboration agreements with Neurocrine, the Company and Neurocrine have agreed to conduct research, development, and commercialization activities for certain of the Company's AAV gene therapy product candidates. Amounts due from Neurocrine are reflected as related party collaboration receivables. As of September 30, 2024, the Company had approximately \$3.3 million in related party collaboration receivables associated with the 2023 Neurocrine Collaboration Agreement and approximately \$0.4 million in related party collaboration receivables associated with the 2019 Neurocrine Collaboration Agreement.

# ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our unaudited condensed consolidated financial statements and related notes appearing elsewhere in this Quarterly Report on Form 10-Q and the audited financial information and the notes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2023, which was filed with the Securities and Exchange Commission, or the SEC, on February 28, 2024.

Our actual results and timing of certain events may differ materially from the results discussed, projected, anticipated, or indicated in any forward-looking statements. We caution you that forward-looking statements are not guarantees of future performance and that our actual results of operations, financial condition and liquidity and the development of the industry in which we operate may differ materially from the forward-looking statements contained in this Quarterly Report on Form 10-Q. The following information and any forward-looking statements should be considered in light of factors discussed in Part I, Item 1A, "Risk Factors" of our Annual Report on Form 10-K for the year ended December 31, 2023, and, if applicable, those included under Part II, Item 1A of our Quarterly Reports on Form 10-Q, that could cause actual future results or events to differ materially from the forward-looking statements that we make.

#### **Overview**

We are a biotechnology company whose mission is to leverage the power of human genetics to modify the course of and ultimately cure neurological diseases. Our wholly-owned, prioritized pipeline programs include an anti-tau antibody for Alzheimer's disease, or AD; a superoxide dismutase 1, or SOD1, silencing gene therapy for amyotrophic lateral sclerosis, or ALS; and a tau silencing gene therapy for AD. Our pipeline also includes other programs we wholly own and programs which we are advancing with licensees and collaborators including Alexion, AstraZeneca Rare Disease, or Alexion; Novartis Pharma AG, or Novartis; and Neurocrine Biosciences, Inc., or Neurocrine, for the treatment of multiple other diseases of the central nervous system, or CNS.

Many of our programs are derived from our TRACER<sup>TM</sup> (Tropism Redirection of AAV by Cell-type-specific Expression of RNA) adeno-associated virus, or AAV, capsid discovery platform, which we have used to generate novel capsids, or TRACER Capsids, and identify associated receptors to potentially enable high brain penetration with genetic medicines following intravenous dosing. TRACER is a broadly applicable, RNA-based screening platform that enables rapid discovery of AAV capsids with robust penetration of the blood-brain barrier and enhanced CNS tropism in multiple species, including non-human primates. All of the gene therapies in our pipeline leverage novel capsids derived from TRACER<sup>TM</sup>.

Recent developments for our pipeline programs are as follows:

• Anti-Tau Antibody (VY7523 – formerly VY-TAU01) for the Treatment of Alzheimer's Disease: Our lead product candidate is VY7523, an intravenously administered, recombinant, humanized IgG4 monoclonal antibody developed to inhibit the spread of pathological tau, which is closely correlated with disease progression and cognitive decline in AD. We have completed enrollment and dosing in a Phase 1a single ascending dose, or SAD, trial of VY7523 in healthy volunteers and expect top-line safety and pharmacokinetic data in the first half of 2025. We expect to initiate a Phase 1b multiple ascending dose, or MAD, trial of VY7523 in patients with early AD in 2025, which has the potential to generate initial data for slowing the spread of pathological tau via tau positron emission tomography, or PET, imaging in the second half of 2026. An increasing body of clinical evidence implicates tau as a critical target in Alzheimer's disease. We believe recent third-party data establish that an antibody targeting the appropriate epitope of tau can slow the accumulation of pathological tau in the brains of Alzheimer's disease patients and may offer a clinically significant benefit in some patients, building on previous third-party clinical data from an antisense oligonucleotide-based tau silencing program.

- SOD1 Silencing Gene Therapy Program for the Treatment of SOD1 ALS (VY9323): We are in preclinical development of our product candidate VY9323, an intravenously administered, specific vectorized siRNA transgene targeting SOD1 delivered using a TRACER Capsid. We completed a pre-investigational new drug, IND, meeting with the U.S. Food and Drug Administration, or FDA, for the VY9323 program in May 2024 and initiated Good Laboratory Practice toxicology studies in July 2024. We expect to submit an IND application to the FDA and clinical trial application, or CTA, to Health Canada for this program in mid-2025 and, if successful, to initiate a Phase 1 clinical trial in SOD1 ALS patients thereafter. We believe this clinical trial has the potential to generate proof-of-concept data for TRACER Capsids and for the treatment of SOD1 ALS based on biomarkers, including cerebrospinal fluid (CSF) SOD1 and plasma neurofilament.
- **Tau Silencing Gene Therapy Program for the Treatment of AD:** We continue to expect to file an IND with the FDA and a CTA with Health Canada for our tau silencing gene therapy program in 2026.
- 2022 Novartis Option and License Agreement: On September 3, 2024, we entered into an amendment, or the Novartis Amendment, to the option and license agreement between us and Novartis dated March 4, 2022, or the 2022 Novartis Option and License Agreement. Pursuant to the Novartis Amendment, we granted to Novartis a direct license, or the Novartis Direct License, to a TRACER Capsid, or the Novartis Direct Licensed Capsid, for exclusive use with a certain gene, or the Novartis Direct License Target, to develop and commercialize the Novartis Direct License Target, or the Novartis Direct License Target, or the Novartis a greed to the Novartis Direct License Target, or the Novartis Direct License Target. Novartis agreed to pay us a one-time fee of \$15.0 million in consideration for the rights granted under the Novartis Amendment which we received in October 2024.
- **2023 Neurocrine Collaboration Agreement:** In September 2024, we announced that the joint steering committee, or JSC, with Neurocrine selected a development candidate in a gene therapy program for the potential treatment of an undisclosed neurological disease, triggering a \$3.0 million milestone payment which we received in October 2024.

#### **Collaboration and License Agreements**

#### 2023 Novartis Collaboration Agreement

On December 28, 2023, we entered into a license and collaboration agreement with Novartis, or the 2023 Novartis Collaboration Agreement, to (a) provide rights to Novartis with respect to certain TRACER Capsids for use in the research, development, and commercialization by Novartis of AAV gene therapy products and product candidates, comprising such TRACER Capsids and payloads intended for the treatment of spinal muscular atrophy, or the Novartis SMA Program, and (b) collaborate to develop AAV gene therapy products and product candidates intended for the treatment of Huntington's disease, or the Novartis HD Program, in each case, leveraging TRACER Capsids and other intellectual property controlled by us. We refer to products and product candidates developed under the Novartis SMA Program as Novartis SMA Program Products, and products and candidates developed under the Novartis HD Program as Novartis HD Program Products. With respect to the Novartis HD Program, the parties have agreed to conduct research and pre-clinical development of Novartis HD Program Products pursuant to a research plan, with Novartis reimbursing us for our activities thereunder in accordance with the agreed-to budget.

Under the 2023 Novartis Collaboration Agreement, Novartis paid us an upfront payment of \$80.0 million. We are eligible to receive specified development, regulatory, and commercialization milestone payments of up to an aggregate of \$200.0 million for the Novartis SMA Program and up to an aggregate of \$225.0 million for the Novartis HD Program, in each case for the first corresponding product to achieve the corresponding milestone. We are also eligible to receive (a) specified sales milestone payments of up to an aggregate of \$400.0 million for the Novartis SMA Program and up to an aggregate of \$375.0 million for the Novartis HD Program and (b) tiered, escalating royalties in the

high single-digit to low double-digit percentages of annual net sales of the Novartis SMA Program Products and the Novartis HD Program Products, subject to customary reductions. For a further description of the 2023 Novartis Collaboration Agreement, refer to Note 9, Significant Agreements, to our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2023 under the caption "2023 Novartis Collaboration Agreement."

#### 2023 Novartis Stock Purchase Agreement

We and Novartis also entered into a stock purchase agreement on December 28, 2023, or the 2023 Novartis Stock Purchase Agreement, for the sale and issuance of 2,145,002 shares of our common stock, or the Novartis Shares, to Novartis at a price of \$9.324 per share, for an aggregate purchase price of approximately \$20.0 million. In accordance with the terms and conditions of the 2023 Novartis Stock Purchase Agreement, we issued and sold the Novartis Shares to Novartis on January 3, 2024, or the 2023 Novartis Investment Closing Date.

#### 2023 Novartis Investor Agreement

We and Novartis also entered into an investor agreement on December 28, 2023, or the 2023 Novartis Investor Agreement, which became effective as of the 2023 Novartis Investment Closing Date, providing for standstill and lock-up restrictions. Pursuant to the terms of the 2023 Novartis Investor Agreement, Novartis has agreed not to, without the prior written approval of us and subject to specified conditions, directly or indirectly acquire shares of our outstanding common stock, publicly seek or propose a tender or exchange offer or merger between the parties, solicit proxies or consents to vote any voting securities that we have issued, or undertake other specified actions related to the potential acquisition of additional equity interests in us. Further, Novartis has also agreed not to, and to cause its affiliates not to sell or transfer any of the Novartis Shares without our prior approval, subject to specified conditions.

#### 2022 Novartis Option and License Agreement

On March 4, 2022, or the 2022 Novartis Option and License Effective Date, we entered into the 2022 Novartis Option and License Agreement, we granted Novartis options, or the Novartis License Options, to license TRACER Capsids, or the Novartis Licensed Capsids, for exclusive use with certain targets to develop and commercialize AAV gene therapy candidates comprised of Novartis Licensed Capsids and payloads directed to such targets, or the Novartis Initial Licensed Products. Effective as of March 1, 2023, Novartis exercised its Novartis License Options to license TRACER Capsids for use in gene therapy programs against two undisclosed programs targeting specified genes, or the Initial Novartis Targets. Novartis elected not to license a capsid for one Initial Novartis Target prior to the expiration of the applicable Novartis License Option. As a result, the non-exclusive research license that we granted to Novartis in connection with this third Initial Novartis Target terminated, and all capsid rights with respect to that Initial Novartis Target returned to us.

On September 3, 2024 we entered into the Novartis Amendment. Pursuant to the Novartis Amendment, we agreed to amend the 2022 Novartis Option and License Agreement to incorporate the grant to Novartis of the Novartis Direct Licensed Capsid for exclusive use with the Novartis Direct License Target to develop and commercialize the Novartis Direct Licensed Capsid as incorporated into Novartis Direct Licensed Products. We refer to the Novartis Initial Licensed Products and Novartis Direct Licensed Products collectively as Novartis Licensed Products. As a result of the Novartis Amendment, the Novartis Direct License Target is now deemed a Licensed Target under the 2022 Novartis Option and License Agreement, as such term is defined therein, and the Novartis Direct License is subject to all other terms and conditions applicable to other licenses granted to Novartis under the 2022 Novartis Option and License Agreement fee of \$15.0 million in consideration for the rights granted under the Novartis Amendment which we received in October 2024. In connection with the Novartis Amendment, the parties acknowledged that Novartis' prior rights to exercise options for any initial targets and additional targets as described in the 2022 Novartis Option and License Agreement, other than those that had previously been exercised, had expired as of the effective date of the Novartis Amendment.

We are eligible to receive specified development, regulatory, and commercialization milestone payments of up to an aggregate of \$125.0 million for the first Novartis Initial Licensed Product for each Initial Novartis Target for which

a Novartis License Option has been exercised to achieve the corresponding milestone. Additionally, we are eligible to receive specified development, regulatory, and commercialization milestone payments of up to an aggregate of \$130.0 million for the first Novartis Direct Licensed Product to achieve the corresponding milestone. On a Novartis Licensed Product-by-Novartis Licensed Product basis, we are also eligible to receive (a) specified sales milestone payments of up to an aggregate of \$175.0 million per Novartis Licensed Product and (b) tiered, escalating royalties in the mid- to high-single-digit percentages of annual net sales of each Novartis Licensed Product. For a further description of the 2022 Novartis Option and License Agreement, refer to Note 9, *Significant Agreements*, to our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2023 under the caption "2022 Novartis Option and License Agreement."

## 2023 Neurocrine Collaboration Agreement

In January 2023, we entered into a collaboration agreement, or the 2023 Neurocrine Collaboration Agreement, with Neurocrine for the research, development, manufacture and commercialization of certain of our AAV gene therapy products. Under the 2023 Neurocrine Collaboration Agreement, we agreed to collaborate on the conduct of four collaboration programs, which we refer to collectively as the 2023 Neurocrine Programs: a glucocerebrosidase 1, or GBA1, gene therapy program for Parkinson's disease and other GBA1-mediated diseases, or the GBA1 Program, and three new programs focused on the research, development, manufacture and commercialization of gene therapies designed to address central nervous system diseases or conditions associated with rare genetic targets, or the 2023 Discovery Programs. Neurocrine has agreed to be responsible for all costs we incur in conducting preclinical development activities for each 2023 Neurocrine Program, in accordance with JSC-agreed upon workplans and budgets.

The 2023 Neurocrine Collaboration Agreement provides for aggregate development milestone payments from Neurocrine to us for the research, development, manufacture, and commercialization of gene therapy products, or the 2023 Collaboration Products, under (a) the GBA1 Program of up to \$985.0 million; and (b) each of the three 2023 Discovery Programs of up to \$175.0 million for each 2023 Discovery Program. We may be entitled to receive aggregate commercial milestone payments for up to two 2023 Collaboration Products under the GBA1 Program of up to \$950.0 million per 2023 Collaboration Product and for one 2023 Collaboration Product under each 2023 Discovery Program of up to \$275.0 million per 2023 Discovery Program. In September 2024, we announced that the JSC with Neurocrine selected a development candidate in a gene therapy program for the potential treatment of an undisclosed neurological disease under the 2023 Neurocrine Collaboration Agreement, which triggered a \$3.0 million milestone payment to us. We received the \$3.0 million during October 2024.

Neurocrine has also agreed to pay us tiered royalties, based on future net sales of the 2023 Collaboration Products. Such royalty percentages, for net sales in and outside the United States, range from (a) for the GBA1 Program, the low double-digits to twenty and the high single-digits to mid-teens, respectively, and (b) for each 2023 Discovery Program, high single-digits to mid-teens and mid-single digits to low double-digits, respectively. For a further description of the 2023 Neurocrine Collaboration Agreement, refer to Note 9, *Significant Agreements*, to our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2023 under the caption "2023 Neurocrine Collaboration Agreement."

#### 2019 Neurocrine Collaboration Agreement

In January 2019, we entered into a collaboration and license agreement with Neurocrine, or the 2019 Neurocrine Collaboration Agreement for the research, development and commercialization of certain of our AAV gene therapy products. Under the 2019 Neurocrine Collaboration Agreement, we agreed to collaborate on the conduct of four collaboration programs, which we refer to collectively as the 2019 Neurocrine Programs: the NBIb-1817 (VY-AADC) program for the treatment of Parkinson's disease, or the VY-AADC Program; a frataxin gene therapy program for Friedreich's ataxia, or the FA Program, and two other undisclosed programs, which we refer to as the 2019 Discovery Programs. Neurocrine has agreed to be responsible for all costs we incur in conducting preclinical development activities for each 2019 Neurocrine Program, in accordance with JSC-agreed upon workplans and budgets.

The 2019 Neurocrine Collaboration Agreement provides for aggregate development milestone payments from Neurocrine to us for the research, development, manufacture, and commercialization of gene therapy products, or the

2019 Collaboration Products, under (a) the FA Program of up to \$195.0 million, and (b) each of the two 2019 Discovery Programs of up to \$130.0 million per 2019 Discovery Program. We may be entitled to receive aggregate commercial milestone payments for each 2019 Collaboration Product of up to \$275.0 million, subject to an aggregate cap on commercial milestone payments across all 2019 Neurocrine Programs of \$1.1 billion. We are no longer eligible to receive milestone or royalty payments for the VY-AADC Program in light of the partial termination of the 2019 Neurocrine Collaboration Agreement with respect to the VY-AADC Program. The JSC's selection of a lead development candidate for the FA Program in February 2024 triggered a \$5.0 million milestone payment to us, which we received in March 2024.

Neurocrine has also agreed to pay us royalties, based on future net sales of the 2019 Collaboration Products. Such royalty percentages, for net sales in and outside the United States, as applicable, range (a) for the FA Program, from the low-teens to high-teens and high-single digits to mid-teens, respectively; and (b) for each 2019 Discovery Program, from the high-single digits to mid-teens and mid-single digits to low-teens, respectively. For a further description of the 2019 Neurocrine Collaboration Agreement, refer to Note 9, Significant Agreements, to our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2023 under the caption "2019 Neurocrine Collaboration Agreement."

## **Alexion Option and License Agreement**

In October 2021, we entered into an option and license agreement with Pfizer Inc., or Pfizer, pursuant to which we granted Pfizer options to receive an exclusive license to certain TRACER Capsids to develop and commercialize certain AAV gene therapy candidates comprised of a capsid and specified transgene. Effective as of September 30, 2022, Pfizer exercised one option with respect to a capsid for a specified transgene for potential treatment of a rare neurological disease, and we granted Pfizer an exclusive, worldwide license, with the right to sublicense, under certain of our intellectual property, the rights to develop and commercialize rare neurological disease products utilizing the capsid candidate and incorporating the specified transgene.

Effective upon the closing of a transaction on September 20, 2023, Alexion (via Alexion Pharma International Operations Limited, or APIO) acquired all of Pfizer's rights under the option and license agreement, which we refer to as the Alexion Agreement, and became the successor-in-interest to Pfizer thereunder. APIO subsequently assigned the Alexion Agreement to its affiliate AstraZeneca Ireland Limited, or AstraZeneca. Neither the acquisition by Alexion nor the subsequent assignment from APIO to AstraZeneca impacted the material terms of the Alexion Agreement.

Pursuant to an amendment to the Alexion Agreement effective as of September 30, 2024, we agreed to extend the research term thereunder until April 1, 2025, during which period we may, at our sole discretion and expense, conduct further research activities to identify additional TRACER Capsids for potential use in the development of AAV gene therapies under the Alexion Agreement. For a further description of the Alexion Agreement, refer to Note 9, Significant Agreements, to our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2023 under the caption "Alexion Option and License Agreement (Formerly Pfizer Option and License Agreement)."

#### 2024 Underwritten Public Offering

In January 2024, we issued and sold 7,777,778 shares of our common stock and, in lieu of common stock to certain investors, pre-funded warrants to purchase 3,333,333 shares of common stock in a public offering, or the 2024 Public Offering, at a public offering price of \$9.00 per share of common stock and \$8.999 per pre-funded warrant. The 2024 Public Offering resulted in net proceeds to the Company of approximately \$93.5 million after deducting underwriting discounts and commissions and offering expenses.

Each pre-funded warrant has an exercise price of \$0.001 per share and is exercisable for one share of common stock from the date of issuance until the pre-funded warrant is exercised in full. Under the terms of the pre-funded warrants, we may not effect the exercise of any such warrant, and a holder will not be entitled to exercise any portion of any such warrant, that, upon giving effect to or immediately prior to, would cause: (1) the aggregate number of shares of our common stock beneficially owned by such holder (together with its affiliates) to exceed 9.99% of the number of

shares of our common stock outstanding immediately after giving effect to the exercise; or (2) the combined voting power of our securities beneficially owned by such holder (together with its affiliates) to exceed 9.99% of the combined voting power of all of our securities outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the pre-funded warrants. However, any holder of a pre-funded warrant may increase or decrease such percentage to any other percentage not in excess of 19.99% provided that any such increase will not be effective until the 61<sup>st</sup> day after notice from the holder is delivered to us.

#### Accumulated Deficit; Expenses

Despite reporting \$132.3 million in net income for the year ended December 31, 2023, we have a history of incurring significant losses. As of September 30, 2024, we had an accumulated deficit of \$291.7 million. We expect to continue to incur significant expenses and operating losses for the foreseeable future. We anticipate that our expenses will increase substantially in connection with our ongoing activities, as we:

- conduct clinical trials in connection with our anti-tau antibody program;
- conduct preclinical development activities and initiate IND application-enabling studies and clinical trials in connection with our SOD1 ALS gene therapy program;
- continue investing in our proprietary antibody program, gene therapy and vectorized antibody platforms and programs, and other research and development initiatives;
- increase our investment in and support for TRACER, our proprietary discovery platform to facilitate the selection of AAV capsids and expand our investment to discover TRACER Capsids with broad tropism in CNS and other tissues with cell-specific transduction properties for particular therapeutic applications;
- increase our investment in the discovery and development of modalities for receptor-mediated non-viral delivery of therapeutic payloads to the CNS;
- conduct joint research and development under our strategic collaborations for the research, development, and commercialization of certain of our pipeline programs, including our FA Program pursuant to the 2019 Neurocrine Collaboration Agreement, our GBA1 Program pursuant to the 2023 Neurocrine Collaboration Agreement, and the Novartis HD Program pursuant to the 2023 Novartis Collaboration Agreement;
- initiate additional preclinical studies and clinical trials for, and continue research and development of, our other programs;
- continue our process research and development activities, as well as establish our research-grade manufacturing capabilities;
- identify additional diseases for treatment with our AAV gene therapies and develop additional programs or product candidates;
- seek marketing and regulatory approvals for any of our product candidates that successfully complete clinical development;
- maintain, expand, protect and enforce our intellectual property portfolio;
- identify, acquire or in-license other product candidates and technologies;
- expand our operational, financial and management systems and personnel, including personnel to support our clinical development, manufacturing and commercialization efforts;
- increase our clinical trial insurance coverage as we expand our clinical trials and increase our product liability insurance once we engage in commercialization efforts; and



• continue to operate as a public company.

## **Financial Operations Overview**

#### Revenue

To date, we have not generated any revenue from product sales and do not expect to generate any revenue from product sales for the foreseeable future. For the three months ended September 30, 2024, we recognized \$15.0 million of collaboration revenue from the Novartis Amendment, \$7.7 million of collaboration revenue from the 2023 Neurocrine Collaboration Agreement, \$0.9 million of collaboration revenue from the 2019 Neurocrine Collaboration Agreement, and \$1.0 million of collaboration revenue from the 2023 Novartis Collaboration Agreement. For the nine months ended September 30, 2024, we recognized \$15.0 million of collaboration revenue from the Novartis Amendment, \$46.8 million of collaboration revenue from the 2023 Neurocrine Collaboration revenue from the 2023 Neurocrine Collaboration revenue from the 2023 Neurocrine Collaboration Agreement, \$8.6 million of collaboration revenue from the 2019 Neurocrine Collaboration Agreement, and \$3.4 million of collaboration revenue from the 2023 Novartis Collaboration Agreement.

For additional information about our revenue recognition policy related to the 2023 and 2019 Neurocrine Collaboration Agreements and the 2023 Novartis Collaboration Agreement, refer to Note 9 of the December 31, 2023 consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2023.

For the foreseeable future, we expect substantially all of our revenue will be generated from our current strategic collaborations and out-licensing arrangements with Neurocrine, Novartis, and Alexion, and any other strategic collaborations and out-licensing arrangements we may enter into in the future. If our development efforts are successful, we may also generate revenue from product sales in the future.

## Expenses

#### Research and Development Expenses

Research and development expenses consist primarily of costs incurred for our research activities, including our program discovery efforts, and the development of our proprietary antibody program and gene therapy and vectorized antibody platforms and programs which include:

- employee-related expenses including salaries, benefits, and stock-based compensation expense;
- costs of funding research performed by third parties that conduct research and development, preclinical and clinical activities, manufacturing and production design on our behalf;
- the cost of purchasing laboratory supplies and non-capital equipment used in designing, developing and manufacturing preclinical and clinical study materials;
- consultant fees;
- facility costs including rent, depreciation and maintenance expenses;
- the cost of securing and protecting intellectual property rights associated with our research and development activities; and
- fees for maintaining licenses under our third-party licensing agreements.

Research and development costs are expensed as incurred. Costs for certain activities, such as manufacturing, preclinical studies, and clinical trials, are generally recognized based on an evaluation of the progress to completion of specific tasks using information and data provided to us by our vendors and collaborators.

Research and development activities are central to our business model. We are in the early stages of development of our product candidates. During the nine months ended September 30, 2024, our research and development expenses have increased as compared to the amounts recorded in the same period in the prior year. As our

research and development programs progress and as we identify product candidates and initiate preclinical studies and clinical trials, including our SAD clinical trial to evaluate VY7523 (formerly referred to as VY-TAU01) which we initiated in the first half of 2024, we expect research and development costs to continue to increase. At this time, we cannot reasonably estimate or know the nature, timing and estimated costs of the efforts that will be necessary to complete the development of our product candidates.

Because of the numerous risks and uncertainties associated with pharmaceutical product development, we are unable to accurately predict the timing or amount of increased expenses. Our expenses will increase if:

- we are required by the FDA or the European Medicines Agency or other regulatory agencies to redesign or modify trials or studies or to perform trials or studies in addition to those currently expected;
- there are any delays in the receipt of regulatory clearance to begin our planned clinical programs; or
- there are any delays in enrollment of participants in or completing our clinical trials or the development of our product candidates.

## General and Administrative Expenses

General and administrative expenses consist primarily of salaries and other related costs, including stock-based compensation, for personnel in executive, finance, accounting, information technology, business development, legal and human resource functions. Other significant costs include corporate facility costs not otherwise included in research and development expenses, legal fees related to patent and corporate matters and fees for accounting and consulting services.

#### Other Income, Net

Other income, net consists primarily of interest income on our marketable securities.

## **Critical Accounting Policies and Estimates**

We believe that several accounting policies are important to understanding our historical and future performance. We refer to these policies as critical because these specific areas generally require us to make judgments and estimates about matters that are uncertain at the time we make the estimate. There were no changes to our critical accounting policies during the nine months ended September 30, 2024, as compared to those identified in our Annual Report on Form 10-K for the fiscal year ended December 31, 2023. It is important that the discussion of our operating results that follow be read in conjunction with the critical accounting policies disclosed in Item 7 "*Critical Accounting Policies and Estimates*" in our Annual Report on Form 10-K, as filed with the SEC on February 28, 2024.

## **Results of Operations**

## Comparison of the three months ended September 30, 2024 and 2023

The following table summarizes our results of operations for the three months ended September 30, 2024 and 2023, together with the changes in those items in dollars:

		nths Ended 1ber 30,	
	2024	2023 (in thousands)	<u>Change</u> )
Collaboration revenue	\$ 24,629	\$ 4,614	\$ 20,015
Operating expenses:			
Research and development	30,241	25,863	4,378
General and administrative	8,168	8,258	(90)
Total operating expenses	38,409	34,121	4,288
Other income, net:			
Interest income	4,579	3,429	1,150
Other income	200	—	200
Total other income, net	4,779	3,429	1,350
Net loss before income taxes	\$ (9,001)	\$ (26,078)	\$ 17,077

## Collaboration Revenue

Collaboration revenue was \$24.6 million and \$4.6 million for the three months ended September 30, 2024 and 2023, respectively. During the three months ended September 30, 2024, we recognized collaboration revenue in connection with the following agreements:

- \$15.0 million of collaboration revenue from the Novartis Amendment;
- \$7.7 million under the 2023 Neurocrine Collaboration Agreement, which includes \$2.0 million of revenue recognized in connection with the milestone payment triggered by the JSC's selection of a development candidate for a gene therapy program for the potential treatment of an undisclosed neurological disease;
- \$0.9 million with the 2019 Neurocrine Collaboration Agreement; and
- \$1.0 million with the 2023 Novartis Collaboration Agreement.

During the three months ended September 30, 2023, we recognized collaboration revenue in connection with the following agreements:

- \$3.1 million with the 2023 Neurocrine Collaboration Agreement; and
- \$1.5 million with the 2019 Neurocrine Collaboration Agreement;

## Research and Development Expense

Research and development expenses increased by \$4.4 million from \$25.9 million for the three months ended September 30, 2023, to \$30.2 million for the three months ended September 30, 2024. The increase in research and development expenses for the three months ended September 30, 2024 was primarily attributable to increased employee and consultant related costs associated with higher headcount in research and development functions, including targeted development team hires to support our advancing pipeline. In addition, we also had increased facilities costs related to

our lease for additional laboratory and office space at 75 Hayden Avenue in Lexington, Massachusetts, as compared to the three months ended September 30, 2023.

## General and Administrative Expense

General and administrative expensed decreased by \$0.1 million from \$8.3 million for the three months ended September 30, 2023, to \$8.2 million for the three months ended September 30, 2024. The consistent spend reflects continued disciplined expense management.

## Other Income, net

Other income, net increased by approximately \$1.4 million. The increase was primarily due to increased interest income on our marketable securities balances, as our marketable securities balance increased during the three months ended September 30, 2024, as compared to the three months ended September 30, 2023.

#### Comparison of the nine months ended September 30, 2024 and 2023

The following table summarizes our results of operations for the nine months ended September 30, 2024 and 2023, together with the changes in those items in dollars:

	Nine Mor	nths Ended	
	Septen	nber 30,	
	2024	2023 (in thousands)	Change )
Collaboration revenue	\$ 73,723	\$ 159,947	\$ (86,224)
Operating expenses:			
Research and development	91,785	66,416	25,369
General and administrative	26,926	25,580	1,346
Total operating expenses	118,711	91,996	26,715
Other income, net:			
Interest income	14,334	8,567	5,767
Other income	220	3	217
Total other income, net	14,554	8,570	5,984
Net (loss) income before income taxes	\$ (30,434)	\$ 76,521	\$ (106,955)

#### Collaboration Revenue

Collaboration revenue was \$73.7 million and \$159.9 million for the nine months ended September 30, 2024 and 2023, respectively. During the nine months ended September 30, 2024, we recognized collaboration revenue in connection with the following agreements:

- \$46.8 million with the 2023 Neurocrine Collaboration Agreement;
- \$15.0 million of collaboration revenue from the Novartis Amendment;
- \$8.6 million with the 2019 Neurocrine Collaboration Agreement; and
- \$3.4 million with the 2023 Novartis Collaboration Agreement.

During the nine months ended September 30, 2023, we recognized collaboration revenue in connection with the following agreements:

• \$79.0 million upon Novartis' decision to exercise two Novartis License Options, along with the expiration of a third Novartis License Option, all of which were determined to be material rights in the 2022 Novartis Option and License Agreement;

- \$75.5 million with the 2023 Neurocrine Collaboration Agreement;
- \$5.2 million with the 2019 Neurocrine Collaboration Agreement; and
- \$0.3 million with other agreements.

#### Research and Development Expense

Research and development expense increased by \$25.4 million from \$66.4 million for the nine months ended September 30, 2023 to \$91.8 million for the nine months ended September 30, 2024. The increase in research and development expense was primarily attributable to the following:

- approximately \$10.6 million for increased facility and other costs primarily related to our lease for additional laboratory and office space at 75 Hayden Avenue in Lexington, Massachusetts, which we took occupancy of on February 1, 2024, along with the \$2.8 million impairment charge on our leased office and laboratory space in Cambridge, Massachusetts;
- approximately \$7.9 million for increased employee and consultant related costs associated with higher headcount in research and development functions as compared to the same period in the prior year; and
- approximately \$5.8 million for external research and development costs related to increased program-related spending, particularly on our anti-tau antibody program and SOD1 program and spend on the Novartis HD Program.

#### General and Administrative Expense

General and administrative expense increased by \$1.3 million from \$25.6 million for the nine months ended September 30, 2023, to \$26.9 million for the nine months ended September 30, 2024. The increase in general and administrative expense was primarily attributable to increased employee related costs and increased facilities costs.

#### Other Income, net

Other income, net increased by approximately \$6.0 million. The increase was primarily due to increased interest income on our marketable securities balances, as our marketable securities increased during the nine months ended September 30, 2024, as compared to the nine months ended September 30, 2023.

## Liquidity and Capital Resources

## Sources of Liquidity

We have funded our operations primarily through private placements of redeemable convertible preferred stock, public offerings of our common stock and pre-funded warrants to acquire our common stock, private placements of our common stock, and strategic collaborations and option and license arrangements, including our strategic collaborations and option and license agreements with Neurocrine, Novartis, and Alexion.

During the nine months ended September 30, 2024, the 2024 Public Offering resulted in net proceeds to the Company of approximately \$93.5 million after deducting underwriting discounts and commissions and offering expenses.

We and Novartis entered into the 2023 Novartis Stock Purchase Agreement, on December 28, 2023, for the sale and issuance of 2,145,002 shares of our common stock to Novartis at a price of \$9.324 per share, for an aggregate purchase price of approximately \$20.0 million. In accordance with the terms and conditions of the 2023 Novartis Stock Purchase Agreement, we issued and sold these shares to Novartis on January 3, 2024.

## Cash Flows

The following table provides information regarding our cash flows for the nine months ended September 30, 2024 and 2023:

	Nine Months Ended September 30,			
		2024	_	2023
		(in the	ouse	ands)
Net cash provided by (used in):				
Operating activities	\$	(781)	\$	101,679
Investing activities		(67,656)		(168,476)
Financing activities		113,441		33,185
Net increase (decrease) in cash, cash equivalents, and restricted				
cash	\$	45,004	\$	(33,612)

#### Net Cash (Used in) Provided by Operating Activities

Net cash used in operating activities was \$0.8 million during the nine months ended September 30, 2024, compared to \$101.7 million of net cash provided by operating activities during the nine months ended September 30, 2023. The increase was primarily due to our net loss during the 2024 period as compared to net income during the 2023 period.

#### Net Cash Used in Investing Activities

Net cash used in investing activities was \$67.7 million during the nine months ended September 30, 2024, compared to \$168.5 million during the nine months ended September 30, 2023. The decrease was primarily due to increased proceeds from sales and maturities of marketable securities that partially offset purchases of marketable securities during the nine months ended September 30, 2024 as compared to the nine months ended September 30, 2023.

## Net Cash Provided by Financing Activities

Net cash provided by financing activities was \$113.4 million during the nine months ended September 30, 2024, driven by proceeds from the issuance of common stock and pre-funded warrants in connection with the 2024 Public Offering and the issuance of common stock in connection with the 2023 Novartis Stock Purchase Agreement. Net cash provided by financing activities during the nine months ended September 30, 2023 was driven by proceeds from the issuance of common stock in connection with the 2023 Neurocrine Collaboration Agreement.

## Funding Requirements

Our expenses increased during the nine months ended September 30, 2024, as compared with the nine months ended September 30, 2023, as our development programs progressed and we increased headcount. We expect our expenses to continue to increase as we continue the research and development of, conduct clinical trials of, and seek marketing approval for our product candidates, including our Phase 1a SAD clinical trial to evaluate VY7523 initiated in the first half of 2024, and as we continue to perform our obligations in connection with our collaboration agreements. In addition, if we obtain marketing approval for any of our product candidates, we expect to incur significant expenses related to program sales, marketing, manufacturing and distribution for our wholly-owned programs and to the extent that such sales, marketing and distribution are not the responsibility of potential collaborators, as applicable. Furthermore, we expect to incur increasing costs associated with operating as a public company, executing financial statement controls, satisfying regulatory and quality standards, fulfilling healthcare compliance requirements, and maintaining product, clinical trial and directors' and officers' liability insurance coverage. We also anticipate the cost of goods and services and the levels of compensation paid to employees will increase due to market conditions existing in the general economy. Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. If we are unable to raise capital or enter into business development transactions when needed or

on acceptable terms, we could be forced to delay, reduce or eliminate our research and development programs or any future commercialization efforts.

As of September 30, 2024, we had cash, cash equivalents, and marketable securities of \$345.4 million. Based upon our current operating plans, we expect that our existing cash, cash equivalents, and marketable securities at September 30, 2024, along with amounts expected to be received as reimbursement for development costs under our collaboration and license agreements with Neurocrine and Novartis, and interest income, to be sufficient to meet our planned operating expenses and capital expenditure requirements into 2027. Our future capital requirements will depend on many factors, including:

- the scope, progress, results, and costs of product discovery, preclinical studies and clinical trials for our
  product candidates, including our Phase 1a SAD clinical trial to evaluate VY7523 initiated in the first half of
  2024;
- the scope, progress, results, costs, prioritization, and number of our research and development programs;
- the progress and status of our strategic collaborations and option and license agreements and any similar arrangements we may enter into in the future, including any research and development costs for which we are responsible, future additional obligations that we may be committed to in connection with these agreements, and our receipt of any expense reimbursements, future milestone payments and royalties from our collaboration partners or licensors;
- the extent to which we are obligated to reimburse preclinical development and clinical trial costs, or the achievement of milestones or occurrence of other developments that trigger milestone and royalty payments, under any collaboration or license agreements to which we might become a party, such as the license agreement we entered into with Touchlight IP Limited in November 2022;
- the costs, timing and outcome of regulatory review of our product candidates;
- our ability to establish and maintain collaboration, distribution, or other marketing arrangements for our product candidates on favorable terms, if at all;
- the costs and timing of preparing, filing and prosecuting patent applications, maintaining and enforcing our intellectual property rights and defending intellectual property-related claims;
- the extent to which we acquire or in-license other product candidates and technologies, including any intellectual property associated with such candidates or technologies, acquire or invest in other businesses, or out-license our product candidates, capsids or other technologies;
- the costs of advancing our manufacturing capabilities and securing manufacturing arrangements for precommercial and commercial production;
- the level of product sales by us or our collaborators from any product candidates for which we obtain marketing approval in the future;
- the costs of operating as a public company and maintaining adequate product, clinical trial, and directors' and officers' liability insurance coverage; and
- the costs of establishing or contracting for sales, manufacturing, marketing, distribution, and other commercialization capabilities if we obtain regulatory approvals to market our product candidates.

Identifying potential product candidates and conducting preclinical studies and clinical trials is a time-consuming, expensive and uncertain process that takes years to complete. We may never generate the necessary data or results required to obtain marketing approval and achieve product sales. In addition, our product candidates, if approved, may not achieve commercial success. Our product revenues, if any, and any commercial milestone payments or royalty

payments under our collaboration agreements, will be derived from sales of products that may not be commercially available for many years, if at all. Accordingly, we will need to continue to rely on additional financing and business development transactions to achieve our business objectives. Adequate additional financing may not be available to us on acceptable terms, or at all.

Until such time, if ever, as we can generate product revenues sufficient to achieve consistent profitability, we expect to finance our cash needs through a combination of equity offerings, debt financings, collaborations, strategic alliances, and option and license arrangements. We do not have any committed external source of funds other than the amounts we are entitled to receive from our collaboration partners and licensors for reimbursement of certain research and development expenses, potential option exercises, the achievement of specified regulatory and commercial milestones, and royalty payments under our collaboration, and option and license agreements, as applicable. To the extent that we raise additional capital through the sale of equity or equity-linked securities, including convertible debt, our stockholders' ownership interests will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect our existing stockholders' rights as holders of our common stock. Debt financing and preferred equity financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, obtaining additional capital, acquiring or divesting businesses, making capital expenditures or declaring dividends.

If we raise additional funds through collaborations, strategic alliances, or option and license arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or to grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds through equity or debt financings when needed, we may be required to delay, limit, reduce or terminate our product development or future commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves.

#### **Contractual Obligations**

We enter into agreements in the normal course of business with clinical research organizations, contract manufacturing organizations, and institutions to license intellectual property. These contracts generally are cancelable at any time by us, upon 30 to 90 days prior written notice.

Our agreements to license intellectual property include potential milestone payments that are dependent upon the development of products using the intellectual property licensed under the agreements and contingent upon the achievement of clinical trial or regulatory approval milestones. We may also be required to pay annual maintenance fees or minimum amounts payable ranging from low-four digits to low five-digits depending upon the terms of the applicable agreement. In certain instances, we are also obligated to pay our licensors royalties based on sales of products, if approved, using the intellectual property licensed under the applicable agreement.

We also have non-cancelable operating lease commitments arising from our leases of office and laboratory space at our facilities in Cambridge and Lexington, Massachusetts. For more information, refer to Note 6 to our unaudited condensed consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q.

#### **Off-Balance Sheet Arrangements**

We did not have, during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined under applicable SEC rules.

## ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to market risk related to changes in interest rates. We have policies requiring us to invest in highquality issuers, limit our exposure to any individual issuer, and ensure adequate liquidity. Our primary exposure to market risk is interest rate sensitivity, which is affected by changes in the general level of U.S. interest rates, particularly because our investments, including cash equivalents, are in the form of money market funds and marketable securities and are invested in U.S. Treasury notes. Due to the short-term duration of our investment portfolio and the low risk profile of our investments, we believe an immediate 100 basis point change in interest rates would not have a material effect on the fair market value of our portfolio.

We are not currently exposed to market risk related to changes in foreign currency exchange rates; however, we may contract with vendors that are located in Asia and Europe in the future and may be subject to fluctuations in foreign currency rates at that time.

Inflation generally affects us by increasing our costs of labor, goods, and services. We do not believe that inflation had a material effect on our business, financial condition, or results of operations during the nine months ended September 30, 2024.

## **ITEM 4. CONTROLS AND PROCEDURES**

## Management's Evaluation of Disclosure Controls and Procedures

We maintain "disclosure controls and procedures," as defined in Rules 13a-15(e) or 15d-15(e) under the Exchange Act of 1934, or Exchange Act, to mean controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in the Securities and Exchange Commission's rules and forms. Our disclosure controls and procedures include, without limitation, controls and other procedures designed to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure.

Our management, with the participation of our principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures as of September 30, 2024. Our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives, and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Our principal executive officer and principal financial officer have concluded based upon the evaluation described above that, as of September 30, 2024, our disclosure controls and procedures were effective at the reasonable assurance level.

We continue to review and document our disclosure controls and procedures and may from time to time make changes aimed at enhancing their effectiveness and to ensure that our systems evolve with our business.

#### **Changes in Internal Control over Financial Reporting**

During the three months ended September 30, 2024, there have been no changes in our internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

## PART II. OTHER INFORMATION

#### **ITEM 1. LEGAL PROCEEDINGS**

In the ordinary course of business, we are from time to time involved in lawsuits, claims, investigations, proceedings, and threats of litigation relating to intellectual property, commercial arrangements and other matters. While the outcome of any such matters cannot be predicted with certainty, as of September 30, 2024, we were not party to any

material pending proceedings. No material governmental proceedings are pending or, to our knowledge, contemplated against us. We are not a party to any material proceedings in which any director, member of senior management or affiliate of ours is either a party adverse to us or our subsidiaries or has a material interest adverse to us or our subsidiaries.

## **ITEM 1A. RISK FACTORS**

We are subject to a number of risks that could adversely affect our business, results of operations financial condition and future prospects including those identified in our Annual Report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024.

#### ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

On July 8, 2024, we issued to an executive non-statutory stock options to purchase an aggregate of 200,000 shares of our common stock at an exercise price of \$7.79 per share. On July 22, 2024, we issued to an executive non-statutory stock options to purchase an aggregate of 36,000 shares of our common stock at an exercise price of \$8.77 per share. On August 28, 2024, we issued to an executive a non-statutory stock option to purchase an aggregate of 40,000 shares of our common stock at an exercise price of \$6.49 per share. Each of these options was made outside of our 2015 Stock Option and Incentive Plan as an inducement material to the recipient's acceptance of an offer of employment with us in accordance with Nasdaq Listing Rule 5635(c)(4). On August 6, 2024, we filed a registration statement on Form S-8 under the Securities Act to register the shares of our common stock underlying these options.

## ITEM 5. OTHER INFORMATION

(c) Director and Officer Trading Arrangements

A portion of the compensation of our directors and officers (as defined in Rule 16a-1(f) under the Securities Exchange Act of 1934, as amended, or the Exchange Act," is in the form of equity awards and, from time to time, directors and officers engage in open-market transactions with respect to the securities acquired pursuant to such equity awards or our other securities, including to satisfy tax withholding obligations when equity awards vest or are exercised, for diversification or other personal reasons.

Transactions in our securities by directors and officers are required to be made in accordance with our insider trading policy, which requires that the transactions be in accordance with applicable U.S. federal securities laws that prohibit trading while in possession of material nonpublic information. Rule 10b5-1 under the Exchange Act provides an affirmative defense that enables directors and officers to prearrange transactions in our securities in a manner that avoids concerns about initiating transactions while in possession of material nonpublic information.

The following table describes, for the quarterly period covered by this report, each trading arrangement for the sale or purchase of our securities adopted or terminated by our directors and officers that is either (1) a contract, instruction or written plan intended to satisfy the affirmative defense conditions of Rule 10b5-1(c), or a Rule 10b5-1 trading arrangement, or (2) a non-Rule 10b5-1 trading arrangement, as defined in Item 408(c) of Regulation S-K.

		Type of	Nature of	<b>Duration of Trading</b>	Aggregate
	Action Taken	Trading	Trading	Trading	Number of
Name (Title)	(Date of Action	) Arrangement	Arrangement	t Arrangement	Securities
Todd Carter,					
Ph.D.		Rule 10b5-1 trading		Until August 15, 2025, or such	
(Chief	Adoption	arrangement for exercises		earlier date upon which all	
Scientific	(September 9	, of options and sales of		transactions are completed or	
Officer)	2024)	shares	Sale	expire without execution	Up to 79,000 shares

#### ITEM 6. EXHIBITS

The exhibits filed or furnished as part of this Quarterly Report are set forth on the Exhibit Index, which is incorporated herein by reference.

## INDEX TO EXHIBITS

		Incorporated by Reference to:								
Exhibit No.	Description	Form or Schedule	Exhibit No.	Filing Date with SEC	SEC File Number	Filed Herewit				
10.1*	First Amendment to Option and License Agreement, by and between Registrant and Novartis Pharma AG, dated September 3, 2024.					Х				
10.2*	First Amendment to Option and License Agreement, by and between Registrant and AstraZeneca Ireland Limited, dated September 30, 2024.					Х				
31.1	Certification of Principal Executive Officer pursuant to Exchange Act Rules 13a-14 or 15d-14.					Х				
31.2	Certification of Principal Financial Officer pursuant to Exchange Act Rules 13a-14 or 15d-14.					Х				
32.1+	Certification of Principal Executive Officer and Principal Financial Officer pursuant to Exchange Act Rules 13a-14(b) or 15d-14(b) and 18 U.S.C. Section 1350.					Х				
101.INS	Inline XBRL Instance Document – the instance document does not appear in the Interactive Data File because XBRL tags are embedded within the Inline XBRL document.					Х				
101.SCH	Inline XBRL Taxonomy Extension Schema Document.					Х				
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document.					Х				
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document.					Х				
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document.					Х				
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document.					Х				
104	Cover Page Interactive Data File – The cover page interactive data file does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document									

+ The certification furnished in Exhibit 32.1 hereto is deemed to be furnished with this Quarterly Report on Form 10-Q and will not be deemed to be "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, except to the extent that the Registrant specifically incorporates it by reference.

## SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: November 12, 2024

## **VOYAGER THERAPEUTICS, INC.**

By: /s/ Alfred Sandrock, M.D., Ph.D.

Alfred Sandrock, M.D., Ph.D. Chief Executive Officer, President, and Director (*Principal Executive Officer*)

By: /s/ Nathan Jorgensen, Ph.D.

Nathan Jorgensen, Ph.D. Chief Financial Officer (Principal Financial and Accounting Officer) Certain identified information has been excluded from the exhibit because it is both (i) not material and (ii) is the type of information that the registrant treats as private or confidential. Double asterisks denote omissions.

## EXECUTION VERSION CONFIDENTIAL

# FIRST AMENDMENT TO OPTION AND LICENSE AGREEMENT

This First Amendment to Option and License Agreement (this "<u>Amendment</u>") is entered into and made effective as of September 3, 2024 (the "<u>Amendment Effective Date</u>") by and between Voyager Therapeutics, Inc., a Delaware corporation having its principal place of business at 75 Hayden Avenue, Lexington, MA ("<u>Voyager</u>"), and Novartis Pharma AG, a corporation, having its principal place of business at Lichtstrasse 35, CH-4056 Basel, Switzerland ("<u>Novartis</u>"). Voyager and Novartis are referred to herein individually as a "<u>Party</u>" and collectively as the "<u>Parties</u>". Capitalized terms used in this Amendment that are not otherwise defined herein shall have the meanings set forth in the Agreement (as defined below).

### RECITALS

WHEREAS, Voyager and Novartis entered into that certain Option and License Agreement, effective as of March 4, 2022 (the "<u>Agreement</u>"), pursuant to which Voyager provides Novartis with access to Capsids (as defined in the Agreement) discovered by Voyager and with an option to license such Capsids in connection with certain gene targets;

WHEREAS, Under the Agreement, among other gene targets, the Parties had agreed to include the Direct License Target (as defined below) as an Initial Target;

WHEREAS, Novartis did not exercise its Option with respect to the Direct License Target prior to the end of the Research Term, and, accordingly, the Option expired on March 4, 2023, and the Direct License Target was removed as a Subject Target; and

WHEREAS, Novartis desires to enter into the license pursuant to Section 3.1.2(a) and 3.1.3 of the Agreement with respect to the Direct License Target and Licensed Capsid identified in <u>Attachment A</u>, and the Parties have agreed to amend the Agreement in accordance with Section 11.11 thereof to provide for such a license.

NOW, THEREFORE, in consideration of the premises and mutual covenants set forth in this Agreement, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

### 1. AMENDMENT OF THE AGREEMENT

The Parties hereby agree that the Agreement is amended as set forth below, effective as of the Amendment Effective Date.

1.1 <u>New Definitions</u>. The following definitions are hereby added to the Agreement:

1.127 "<u>Direct License Target Development Candidate Declaration</u>" means, with respect to a Licensed Product with a Novartis Payload directed to the Direct License Target, the first occurrence of (i) Novartis, at its sole discretion, designating such Licensed Product

as a biological development candidate through Novartis' then-current internal governance process (e.g. approval by the Discovery and Translational Board) allowing such Licensed Product to advance to IND-enabling studies, or (ii) Novartis, any Affiliate, or any Sublicensee initiating a GLP toxicology study for such Licensed Product without having previously designated such Licensed Product as a biological development candidate.

1.128 "<u>Direct License Target</u>" means the [\*\*] gene, including the coding and non-coding regions affecting its function and regulation, and modifications thereof. The Direct License Target constitutes a Subject Target.

1.2 <u>Amended Definitions</u>. Section 1.70 and Section 1.105 of the Agreement are hereby deleted in its entirety and is replaced with the following:

1.70 "<u>Licensed Product</u>" means a product comprising: (a) a Licensed Capsid; and (b) a Novartis Payload directed to a Licensed Target for such Licensed Capsid.

1.105 "<u>Research Term</u>" means, on a Subject Target-by-Subject Target basis, the period commencing on the Evaluation Start Date for such Subject Target and ending on: (a) for any Subject Target other than the Direct License Target, the third (3rd) anniversary of the Effective Date; or (b) for the Direct License Target, September 3, 2026.

1.3 <u>Option Exercise Fees</u>. Section 5.3 of the Agreement (Option Exercise Fee) is hereby deleted in its entirety and replaced with the following:

5.3 <u>Option Exercise Fees</u>. For each Option that Novartis exercises for a Rare Disease Target other than the Direct License Target, Novartis will pay to Voyager a fee (each, an "<u>Option Exercise Fee</u>") of Twelve Million Five Hundred Thousand Dollars (\$12,500,000). No Option Exercise Fee will be payable for the Direct License Target.

1.4 <u>Development Milestones</u>. The milestone table in Section 5.4.2 of the Agreement (Development Milestone Events and Payments) is hereby deleted in its entirety and replaced with the following:

	Development Milestone Event	Development Milestone Payment (per Licensed Target)
(a)	[**]	[**] Dollars (\$[**])
(b)	[**]	[**] Dollars (\$[**])
(c)	[**]	[**] Dollars (\$[**])
(d)	[**]	[**] Dollars (\$[**])
(e)	[**]	[**] Dollars (\$[**])
(f)	[**]	[**] Dollars (\$[**])

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Development Milestone Event	Development Milestone Payment (per Licensed Target)
Total Per Licensed Target	For Licensed Targets other than the Direct License Target: One Hundred Twenty- Five Million (\$125,000,000)
	For the Direct License Target: One Hundred Thirty Million (\$130,000,000)

1.5 <u>Voyager Address</u>. Voyager's address in the preamble of the Agreement and in the notices provision in Section 11.7 of the Agreement is hereby replaced with "75 Hayden Avenue, Lexington, MA 02421".

# 2. CONSIDERATION

2.1 <u>Amendment Fee</u>. Novartis will pay Voyager a one-time fee of Fifteen Million Dollars (\$15,000,000) for the rights granted under this Amendment (the "<u>Amendment Fee</u>").

2.2 <u>Invoicing; Payment</u>. Voyager will invoice Novartis for the Amendment Fee on or promptly after the Amendment Effective Date. Novartis will pay such invoice in accordance with Section 5.5 of the Agreement.

# 3. ADDITION OF DIRECT LICENSE TARGET AS A LICENSED TARGET

3.1 <u>Direct License Target deemed a Licensed Target</u>. The Parties agree that, notwithstanding anything to the contrary set forth in the Agreement, from and after the Amendment Effective Date, the Direct License Target will be deemed a Licensed Target under the Agreement. Novartis asserts that, in Novartis's good faith assessment based on advice from specialized counsel, Novartis has concluded that the grant of the licenses in Section 3.1.2(a) and 3.1.3 of the Agreement with respect to the Direct License Target and Licensed Capsid identified in <u>Attachment A</u> does not require Antitrust Filings.

3.2 <u>Effect of Addition of Direct License Target</u>. With respect to the Direct License Target, the Parties agree that, from and after the Amendment Effective Date: (a) references in the Agreement to the Option Exercise Date will be deemed to refer to the Amendment Effective Date; and (b) the Agreement will be interpreted as if Novartis exercised the Option with respect to the Direct License Target for the Capsid Candidate identified in <u>Attachment A</u>, which Capsid Candidate will be deemed a Licensed Capsid.

3.3 <u>No Further Options</u>. The parties acknowledge and agree that Novartis' rights to exercise the Options for the Initial Targets or any Additional Targets have been exercised or expired as of the Amendment Effective Date, and accordingly no further Option rights exist under the Agreement as of the Amendment Effective Date.

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# 4. MISCELLANEOUS

4.1 <u>Scope</u>. This Amendment supersedes all proposals, negotiations, conversations and/or discussions between or among parties relating to the subject matter of this Amendment and all past dealing or industry custom. This Amendment shall be integrated in and form part of the Agreement effective as of the Amendment Effective Date. Except for the foregoing modifications, the Agreement is hereby ratified and confirmed in accordance with its original terms.

4.2 <u>Counterparts</u>. This Amendment may be executed in one or more counterparts, each of which will be an original and all of which together will constitute one instrument.

[Signature page follows.]

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IN WITNESS WHEREOF, and intending to be legally bound hereby, the Parties have caused this Amendment to be executed by their duly authorized representatives as of the Amendment Effective Date.

# Voyager Therapeutics, Inc.

By: /s/ Alfred Sandrock Name: Alfred Sandrock

Title: CEO

### Novartis Pharma AG

By: /s/ Arne Worne

Name: Arne Worne Title: Global Head Alliance Management

## Novartis Pharma AG

By: /s/ Simone Pfirter Name: Simone Pfirter Title: Head NIBR General Legal Europe

[Signature page to First Amendment to Option and License Agreement]

# Attachment A

# Capsid Candidate for Direct License Target

Attachment A - 1

Certain identified information has been excluded from the exhibit because it is both (i) not material and (ii) is the type of information that the registrant treats as private or confidential. Double asterisks denote omissions.

## FIRST AMENDMENT TO OPTION AND LICENSE AGREEMENT

This First Amendment to Option and License Agreement (this "<u>Amendment</u>") is entered into and made effective as of September 30, 2024 (the "<u>Amendment Effective Date</u>") by and between (i) Voyager Therapeutics, Inc., a Delaware corporation having its principal place of business at 75 Hayden Avenue, Lexington, MA 02421 ("<u>Voyager</u>"), and (ii) AstraZeneca Ireland Limited, a limited company incorporated in Ireland, with its registered office at [\*\*] ("<u>Alexion</u>"). Voyager and Alexion are referred to herein individually as a "<u>Party</u>" and collectively as the "<u>Parties</u>". Capitalized terms used in this Amendment that are not otherwise defined herein shall have the meanings set forth in the Agreement (as defined below).

### RECITALS

WHEREAS, Voyager and Pfizer Inc., a Delaware corporation ("<u>Pfizer</u>") entered into that certain Option and License Agreement, effective as of October 1, 2021 (the "<u>Agreement</u>"), pursuant to which Voyager provides Pfizer with access to certain Capsids (as defined in the Agreement) discovered by Voyager and with an option to license such Capsids in connection with certain gene targets;

WHEREAS, (i) Pfizer assigned the Agreement to Alexion Pharma International Operations Limited ("<u>APIO</u>"), and APIO assumed the Agreement, in connection with the closing of that certain definitive purchase and license agreement dated July 28, 2023 by and between Pfizer and Alexion, and (ii) APIO subsequently assigned the Agreement to its Affiliate, AstraZeneca Ireland Limited, which assumed the Agreement as assignee;

WHEREAS, in accordance with Section 11.7 of the Agreement, Pfizer provided notice to Voyager of such assignment and assumption of the Agreement pursuant to a written notice dated October 12, 2023;

WHEREAS, under the Agreement, Pfizer (i) exercised its Option with respect to the CNS Capsid during the Option Period and (ii) did not exercise its Option with respect to the Cardiology Capsid during the Option Period; and

WHEREAS, Alexion desires to extend the Research Term for the CNS Capsid, and the Parties have agreed to amend the Agreement in accordance with Section 11.11 thereof.

NOW, THEREFORE, in consideration of the premises and mutual covenants set forth in this Agreement, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

# 1. AMENDMENT OF THE AGREEMENT

The Parties hereby agree that the Agreement is amended as set forth below, effective as of the Amendment Effective Date.

Page 1 of 4

- 1.1 <u>Amended Definitions</u>. Section 1.82 and Section 1.103 and of the Agreement are hereby deleted in its entirety and is replaced with the following:
  - 1.82 "<u>Pfizer</u>" means AstraZeneca Ireland Limited, a limited company incorporated in Ireland, with its registered office at [\*\*].
  - 1.103 "<u>Research Term</u>" means, (i) for any TRACER Capsid Candidate designed to target the central nervous system, the period commencing on the Effective Date and ending on April 1, 2025, and (ii) for the Cardiology Capsid, the period commencing on the Effective Date and ending on the first (1<sup>st</sup>) anniversary of the Effective Date.

References in the Agreement to Pfizer shall be deemed references to Alexion (as assignee).

- 1.2 <u>Amendment of Section 11.7 (Notices)</u>: Section 11.7 of the Agreement is hereby amended, replaced and superseded by the following as of the Amendment Effective Date:
  - 11.7 <u>Notices</u>. Any notice or request required or permitted to be given under or in connection with this Agreement will be deemed to have been sufficiently given if in writing and personally delivered or sent by certified mail (return receipt requested), or overnight express courier service (signature required), prepaid, to the Party for which such notice is intended, at the address set forth for such Party below:

If to Voyager:	Voyager Therapeutics, Inc.
	Attention: Chief Executive Officer
	75 Hayden Avenue, Lexington, MA 02421

Copy to (which copy will not constitute notice):

	Voyager Therapeutics, Inc. Attention: Chief Legal Officer 75 Hayden Ave, Lexington, MA 02421 Email: [**]	
		Pickering Hale and Dorr LLP , Boston, MA 02109 Brian A. Johnson, Esq. Sarah T. Hogan, Esq. brian.johnson@wilmerhale.com sarah.hogan@wilmerhale.com
If to Alexion:	AstraZeneca Ireland Limited [**] Attention: [**] Email: [**]	
With a copy to:	Alexion, AstraZeneca Rare Disease Legal Page 2 of 4	

# [\*\*]

If delivered personally, the date of delivery will be deemed to be the date on which such notice or request was given. If sent by overnight express courier service, the date of delivery will be deemed to be the next Business Day after such notice or request was deposited with such service. If sent by certified mail, the date of delivery will be deemed to be the third (3rd) Business Day after such notice or request was deposited with the U.S. Postal Service.

- 1.2 Capsid Substitution During Research Term; Reporting. The Parties acknowledge and agree that during the Research Term, pursuant to the terms and conditions of Section 2.3 and Section 2.5 of the Agreement (without limiting the terms of Sections 2.3 and Section 2.5 except as amended by this Amendment), (i) Alexion may conduct additional Evaluation of TRACER Capsid Candidates that are CNS Capsids during the Research Term, and (ii) Alexion may elect to substitute any TRACER Capsid Candidate for any Licensed Capsid during the Research Term by providing written notice to Voyager in accordance with Section 11.7 of the Agreement, identifying the Substitute Capsid and the specific Pfizer Transgene for which the Substitute Capsid will replace the previously designated Licensed Capsid. Alexion will provide to Voyager written reports summarizing all results (including the Pfizer Evaluation Data) of the Evaluation conducted by Alexion during the Research Term; provided that Alexion, in its sole discretion, may choose to redact, mask, or not provide any information related to a Pfizer Transgene or Manufacturing, in each case, pursuant to Section 2.3.2 of the Agreement, and Alexion will provide the foregoing results within thirty (30) days following the completion of the Research Term.
- 1.3 <u>No Further Options</u>. The Parties acknowledge and agree that Pfizer's rights to exercise the Option set forth in Section 2.4 have been exercised or expired as of the Amendment Effective Date, and accordingly no further Option rights exist under the Agreement as of the Amendment Effective Date. For clarity, an Option does not include the substitution rights under Section 2.5, which continue to apply as set forth herein.

# 2. MISCELLANEOUS

- 2.1 <u>Scope</u>. This Amendment supersedes all proposals, negotiations, conversations and/or discussions between or among Parties relating to the subject matter of this Amendment and all past dealing or industry custom. This Amendment shall be integrated in and form part of the Agreement effective as of the Amendment Effective Date. Except for the foregoing modifications, the Agreement is hereby ratified and confirmed in accordance with its original terms.
- 2.2 <u>Counterparts</u>. This Amendment may be executed in one or more counterparts, each of which will be an original and all of which together will constitute one instrument.

[Remainder of this page is intentionally left blank]

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IN WITNESS WHEREOF, and intending to be legally bound hereby, the Parties have caused this Amendment to be executed by their duly authorized representatives as of the Amendment Effective Date.

# **VOYAGER THERAPEUTICS, INC.**

By: <u>/s/ Alfred W. Sandrock, Jr., M.D., Ph.D.</u> Name: Alfred W. Sandrock, Jr., M.D., Ph.D. Title: President and CEO

# ASTRAZENECA IRELAND LIMITED

By: <u>/s/ Becky Jorgenson</u> Name: Becky Jorgenson Title: Director

[Signature page to First Amendment to Option and License Agreement]

#### I, Alfred Sandrock, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q for the period ended September 30, 2024 of Voyager Therapeutics, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 12, 2024

/s/ Alfred Sandrock, M.D., Ph.D.

Alfred Sandrock, M.D., Ph.D. Chief Executive Officer, President, and Director (*Principal Executive Officer*) I, Nathan Jorgensen, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q for the period ended September 30, 2024 of Voyager Therapeutics, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 12, 2024

/s/ Nathan Jorgensen, Ph.D.

Nathan Jorgensen, Ph.D. Chief Financial Officer (Principal Financial and Accounting Officer)

### CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report on Form 10-Q of Voyager Therapeutics, Inc. (the "Company") for the period ended September 30, 2024, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of the undersigned officers hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 that to his knowledge:

- 1) the Report which this statement accompanies fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- 2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 12, 2024

/s/ Alfred Sandrock, M.D., Ph.D.

Alfred Sandrock, M.D., Ph.D. Chief Executive Officer, President, and Director (*Principal Executive Officer*)

Date: November 12, 2024

/s/ Nathan Jorgensen, Ph.D.

Nathan Jorgensen, Ph.D. Chief Financial Officer (Principal Financial and Accounting Officer)